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Data Summary Report for IHSS Group NE-1

IHSS NE-142.1 – Pond A-1
IHSS NE-142.2 – Pond A-2
IHSS NE-142.3 – Pond A-3
IHSS NE-142.4 – Pond A-4
IHSS NE-142.12 – Pond A-5
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IHSS NE-142.1 – Pond A-1
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IHSS NE-142.1 – Pond A-1
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IHSS SE-142.11 – Pond C-2

Approval received from the U.S. Environmental Protection Agency
(October 18, 2005).
Approval letter contained in the Administrative Record.

October 2005

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ENCLOSURE

Compact Disc Containing Standardized Real and QC Data

ACRONYMS

AL	action level
AR	Administrative Record
ASD	Analytical Services Division
bgs	below ground surface
BZ	Buffer Zone
CAS	Chemical Abstracts Service
CD	compact disc
CDPHE	Colorado Department of Public Health and Environment
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COC	contaminant of concern
CRA	Comprehensive Risk Assessment
CSU	Colorado State University
dpm/g	disintegrations per minute per gram
dpm/L	disintegrations per minute per liter
DOE	U.S. Department of Energy
DQA	Data Quality Assessment
DQO	data quality objective
EP	Extraction Procedure
EPA	U.S. Environmental Protection Agency
ER	Environmental Restoration
ft	foot
FY	Fiscal Year
HEC	Hydraulic Engineering Center
HpCDD	heptachlorodibenzo-p-dioxin
HpCDF	heptachlorodibenzofuran
HRR	Historical Release Report
HxCDD	hexachlorodibenzo-p-dioxin
HxCDF	hexachlorodibenzofuran
IA	Industrial Area
IABZSAP	Industrial Area and Buffer Zone Sampling and Analysis Plan
IHSS	Individual Hazardous Substance Site
IM/IRA	Interim Measure/Interim Remedial Action
ISOCS	In-Situ Counting System
K-H	Kaiser-Hill Company, L.L.C.
LCS	laboratory control sample
µCi	microcurie
µg/kg	micrograms per kilogram (may be found as ug/kg)
µg/L	micrograms per liter (may be found as ug/kg)
MDL	method detection limit
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MS	matrix spike

MSD	matrix spike duplicate
N/A	not applicable
NFAA	No Further Accelerated Action
OPWL	Original Process Waste Lines
OU	Operable Unit
PAC	Potential Area of Concern
PAH	polycyclic aromatic hydrocarbon
PARCCS	precision, accuracy, representativeness, completeness, comparability, and sensitivity
PCB	polychlorinated biphenyl
pCi/g	picocuries per gram
pCi/L	picocuries per liter
PeCDD	pentachlorodibenzo-p-dioxin
PeCDF	pentachlorodibenzofuran
pg/g	picograms per gram
OCDD	octachlorodibenzo-p-dioxin
OCDF	octachlorodibenzofuran
QA	quality assurance
QC	quality control
RCRA	Resource Conservation and Recovery Act
RFCA	Rocky Flats Cleanup Agreement
RFETS or Site	Rocky Flats Environmental Technology Site
RFI/RI	RCRA Facility Investigation/Remedial Investigation
RI/FS	Remedial Investigation-Feasibility Study/Corrective Measures Study - Feasibility Study
RIN	report identification number
RL	reporting limit
RPD	relative percent difference
ft^2	square feet
SAP	Sampling and Analysis Plan
SEP	Solar Evaporation Ponds
SID	South Interceptor Ditch
SOR	sum of ratios
SSRS	Subsurface Soil Risk Screen
SVOC	semivolatile organic compound
SWD	Soil Water Database
TCDD	tetrachlorodibenzodioxin
TCDF	tetrachlorodibenzofuran
TCLP	Toxicity Characteristic Leaching Procedure
UCL	upper confidence limit
USDA	U.S. Department of Agriculture
UTL	upper tolerance limit
V&V	verification and validation
VOC	volatile organic compound
WEPP	Water Erosion Prediction Project
WRW	wildlife refuge worker

%REC	percent recovery

1.0 INTRODUCTION

This Data Summary Report summarizes characterization activities conducted at Individual Hazardous Substance Site (IHSS) Group NE-1 at the Rocky Flats Environmental Technology Site (RFETS or Site) near Golden, Colorado. Results are compared to wildlife refuge worker (WRW) action levels (ALs) described in the Rocky Flats Cleanup Agreement (RFCA) (DOE et al. 2003). Ecological risk is described in the Draft Comprehensive Risk Assessment which is Appendix A of the Draft Remedial Investigation-Feasibility Study/Corrective Measures Study - Feasibility Study Report (RI/FS) (DOE 2005a). Photographs of recent sampling activities at the ponds are presented in Appendix A.

The locations of the IHSSs addressed in this report are shown on Figure 1. IHSS Group NE-1 consists of the 13 IHSSs and Potential Areas of Concern (PACs) listed in Table 1. Sites addressed in this report are shown in bold and labeled on Figure 1. This Data Summary Report does not include information on IHSSs NE-142.5 (Pond B-1), NE-142.6 (Pond B-2), NE-142.7 (Pond B-3), and PAC NE-1404 (Northeast Buffer Zone Gas Line Break). IHSSs NE-142.5, NE-142.6, and NE-142.7 were remediated and these activities are described in the Closeout Report for Ponds B-1, B-2, and B-3 (DOE 2005b). PAC NW-1505 received No Further Accelerated Action (NFAA) approval in 2005 (DOE 2005c). Pond C-1 (IHSS SE-142.10) received NFAA approval in 2004 and is described in an NFAA Justification (DOE 2004a); however, Pond C-1 data are included here for completeness.

Table 1
IHSS Group NE-1 Disposition Documents

IHSS or PAC	Disposition Document
IHSS NE-142.1 – Pond A-1	**Data Summary Report for IHSS Group NE-1**
IHSS NE-142.2 – Pond A-2	**Data Summary Report for IHSS Group NE-1**
IHSS NE-142.3 – Pond A-3	**Data Summary Report for IHSS Group NE-1**
IHSS NE-142.4 – Pond A-4	**Data Summary Report for IHSS Group NE-1**
IHSS NE-142.12 – Pond A-5	**Data Summary Report for IHSS Group NE-1**
IHSS NE-142.5 – Pond B-1	Closeout Report for IHSS Group NE-1, Ponds B-1, B-2, and B-3 (DOE 2005b)
IHSS NE-142.6 – Pond B-2	Closeout Report for IHSS Group NE-1, Ponds B-1, B-2, and B-3 (DOE 2005b)
IHSS NE-142.7 – Pond B-3	Closeout Report for IHSS Group NE-1, Ponds B-1, B-2, and B-3 (DOE 2005b)
IHSS NE-142.8 – Pond B-4	**Data Summary Report for IHSS Group NE-1**
IHSS NE-142.9 – Pond B-5	**Data Summary Report for IHSS Group NE-1**

IHSS or PAC	Disposition Document
IHSS SE-142.10 – Pond C-1	**NFAA Justification, 2004 HRR (DOE 2004a)**
IHSS SE-142.11 – Pond C-2	**Data Summary Report for IHSS Group NE-1**
NE-1404 – Diesel Spill at Pond B-2 Spillway	NFAA Justification, HRR 1998 (DOE 1998)
PAC NW-1505 – North Firing Range	Closeout Report for IHSS Group NE-1, PAC NW-1505, North Firing Range (DOE 2005c)

This Data Summary Report includes a description of historical information regarding the IHSSs and analytical data collected from July 1991 to present. Sediment and soil analytical data were evaluated, in accordance with the Industrial Area (IA) and Buffer Zone (BZ) Sampling and Analysis Plan (SAP) (IABZSAP) data quality objectives (DQOs), to determine whether an accelerated action was required at any of these IHSSs. Data are compared to RFCA WRW soil ALs (DOE et al. 2003) on a point-by-point basis.

Approval of this Data Summary Report constitutes regulatory agency determination that IHSSs included in this report are NFAA Sites. Approval of the closeout report and NFAA determination will be documented in the Fiscal Year (FY) 2005 (05) Historical Release Report (HRR).

2.0 SITE CHARACTERIZATION

IHSS Group NE-1 information consists of historical knowledge (DOE 1992-2004) and sampling data. Historical information is summarized in Section 2.1. Characterization data, collected in accordance with the Phase I Resource Conservation and Recovery Act (RCRA) Facility Investigation/Remedial Investigation (RFI/RI) Work Plan for the Walnut Creek Priority Drainage, Operable Unit (OU) 6 (DOE 1992), the IABZSAP (DOE 2004b), CRA SAP Addendum #05-01 – Phase 2 Targeted Sampling (DOE 2004c), and IABZSAP Addendum #IABZ05-06 (DOE 2005d), are presented in Section 2.2.

2.1 Historical Information

The following sections contain historical information on the ponds included in this Data Summary Report. The history is summarized from the HRRs (DOE 1992-2004) and the RFETS Storm Water Pollution Prevention Plan (DOE 2003).

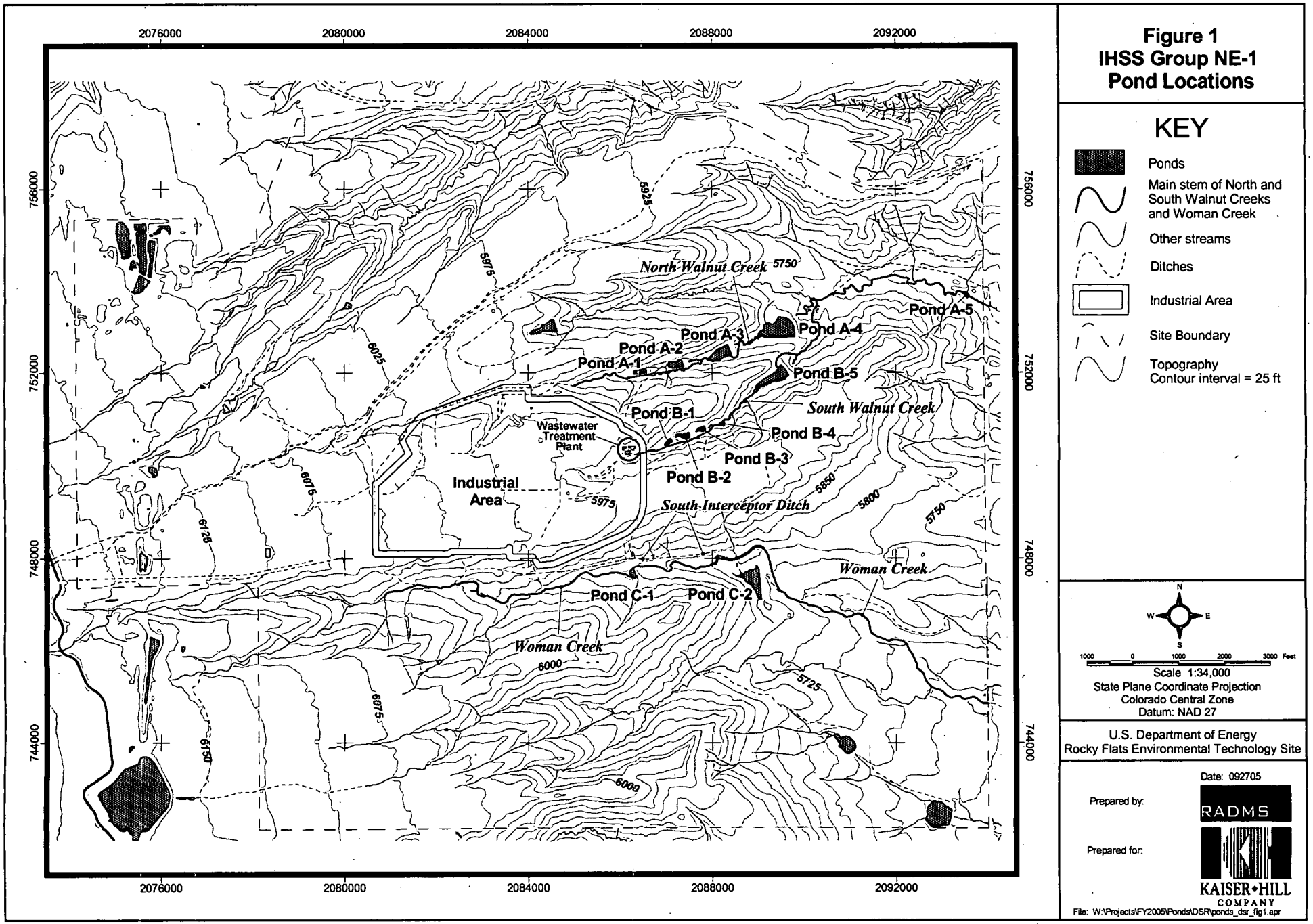

Figure 1
IHSS Group NE-1
Pond Locations

KEY

- Ponds
- Main stem of North and South Walnut Creeks and Woman Creek
- Other streams
- Ditches
- Industrial Area
- Site Boundary
- Topography
  Contour interval = 25 ft

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Date: 092705

Prepared by: RADMS

Prepared for: KAISER•HILL COMPANY

File: W:\Projects\FY2005\Ponds\DSR\ponds_dsr_fig1.apr

2.1.1 Pond History and Management

The A-Series Ponds are located in the North Walnut Creek drainage, downstream of the 900 Area, and include Pond A-1 (IHSS NE-142.1), Pond A-2 (IHSS NE-142.2), Pond A-3 (IHSS NE-142.3), Pond A-4 (IHSS NE-142.4), and Pond A-5 (IHSS NE-142.12). The B-Series Ponds are located in the South Walnut Creek drainage, downstream of the 900 Area, and include Pond B-1 (IHSS NE-142.5), Pond B-2 (IHSS NE-142.6), Pond B-3 (IHSS NE-142.7), Pond B-4 (IHSS NE-142.8), and Pond B-5 (IHSS NE-142.9). The C-Series Ponds are located in the Woman Creek Drainage, southeast of the 800 Area, and include Pond C-1 (IHSS SE-142.10) and Pond C-2 (IHSS SE-142.11).

The A-, B-, and C-Series Ponds were designed and constructed to collect surface runoff and allow for management and controlled off-site discharge of water. The ponds serve three main purposes: stormwater management, holding water for sampling and treatment (if necessary), and emergency spill control in those instances where a spill could not be adequately managed without use of the ponds. Some of the pond sediments were contaminated because of releases from industrial processes. All sediment was removed from Ponds B-1, B-2, and B-3 during 2005 because of this concern (DOE 2005b).

The ponds farthest downstream within the Site boundaries (Ponds A-4, B-5, and C-2) are referred to as the "Terminal Ponds." The Terminal Ponds are designed to provide additional volume for sedimentation and flood control and are monitored before discharge.

Ponds A-1, A-2, B-1, and B-2 were reserved for emergency spill control when other options were not available. Water that accumulates in these ponds from runoff generally was transferred to Pond A-2. Pond B-3 received treated effluent from the Waste Water Treatment Plant, while the remaining A- and B- Series Ponds receive runoff from the stormwater management system and their drainage basins. Pond C-1 receives flow from Woman Creek and Pond C-2 collects diverted flow from the South Interceptor Ditch (SID).

Between the mid-1950s and 1962, the Site pond network consisted of Ponds A-1, B-2, B-3, B-4, and C-1. Pond B-1 was added in 1962. The ponds within each drainage operated in series with the flow from one pond entering the next pond downstream until the final pond was reached and the water was discharged off site. In June 1973, construction was completed on the three drainages to provide additional detention capacity and the capability of bypassing flows around particular ponds. By mid-1974, Ponds A-1, A-2, A-3, B-1, B-2, B-3, B-4, and C-1 existed. The A Ponds operated in series and the B Ponds operated in a separate series until December 1973 when Ponds A-2 and B-2 were connected by pipeline, allowing for water transfer between the two ponds and isolation from the rest of the flow system. Construction of the current Terminal Ponds A-4, B-5, and C-2 was completed in 1980. After construction of Pond C-2 and the SID, Pond C-2 became the pond on the C-Series drainage available for emergency spill control.

A-Series Ponds

In the A-Series Ponds, Ponds A-1 and A-2 were considered nondischarge ponds and water from them was seldom released. During periods of heavy rain, or if water was needed downstream, there was an occasional movement of water. North Walnut Creek was routed around the upper A-Series Ponds so flow went into Pond A-3 and then into Pond A-4. Pond A-4 is the largest of the surface water ponds on Rocky Flats, and discharge occurs on a regular basis. The ponds currently operate in this configuration.

Pond A-5 is a small pond where Walnut Creek crosses Indiana Street. Pond A-5 retains several thousand gallons but is not a Site retention pond in the same sense as Pond A-4 or B-5 because it cannot be used to retain a storm surge and regulate discharge.

The general types of materials that were directly or indirectly released to the A-Series drainage (nonemergency and nonspill-related) during the history of RFETS included untreated wastewater from Building 771, cooling tower and roof drain water from Building 774, Building 774 evaporator condensate water, and footing drain flows. The Building 771 wastewater primarily consisted of decontamination laundry wastewater; however, it also contained water from the analytical laboratory, radiography operations, personnel decontamination room, and runoff. Building 771 waste was discharged to a storm drain north (PAC 700-143) and west of Building 771, and flowed to the A-Series drainage. In 1971, it was reported that the Building 774 evaporator condensate drain typically released 20,000 gallons of water per day at 100 disintegrations per minute per liter (dpm/L), with 5 milligrams per liter (mg/L) of nitrate.

In 1973, it was estimated that 14 microcuries (μCi) of plutonium-239/240 were present in Pond A-1 sediment. In response to this problem, a series of pipes and pumps to collect contaminated groundwater and seepage was constructed between the Solar Evaporation Ponds (SEP) (PAC 000-101) and the A-Series drainage. Other response actions to contamination in the A-Series drainage included the removal of contamination near the Building 771 outfall (PAC 700-143), rerouting of discharges to other facilities, and elimination of flows from Building 774.

Results of the routine predischarge sampling for Pond A-4 on November 3, 2004, yielded elevated americium-241 activities. These elevated activities were seen in samples collected by both the U.S. Department of Energy (DOE) and the Colorado Department of Public Health and Environment (CDPHE). These activities exceeded the RFCA surface water ALs for americium-241, and as a result the pond water was not discharged.

In early December 2004, DOE collected a number of surface water samples in the North Walnut Creek drainage to investigate the source of elevated americium-241 activity noted in Pond A-4. The sampling was concentrated in the area where Buildings 771/774 formerly stood. One sample, collected from a pool of water in an Original Process Waste Line (OPWL) (PAC 000-121) manway, northwest of former Building 771, contained elevated americium-241 activities without significant plutonium-239/240 activity, which is the same radionuclide signature observed in Ponds A-3 and A-4. This manway receives the outfall from former Building 771 area.

Based on this sampling result, actions to stop any additional water from this source from entering North Walnut Creek were taken. The manway, which had been covered with soil as a result of the site grading activities at former Building 771, was excavated and flows from the incoming pipes were intercepted, analyzed, and treated as needed. All pipes at the manway were removed, as well as the manway itself. Pipe ends were plugged. Subsequently, the water in Pond A-4 was treated using a co-precipitation and filtration process and met stream standards for discharge.

B-Series Ponds

In the B-Series Ponds, Ponds B-1 and B-2 were the nondischarge ponds and water from them was seldom released. Flow in South Walnut Creek was diverted around the first three ponds directly to Pond B-4, which flowed through to Pond B-5, the Terminal Pond in the B-Series. Pond B-3 formerly received discharge from the Rocky Flats wastewater treatment plant, and was allowed to discharge into Pond B-4. For a number of years, water from Pond B-5 was pumped to Pond A-4, where all the water was sampled and held until the results demonstrated compliance with applicable stream standards. In 1998, direct discharge of Pond B-5 was allowed under an agreement reached with the neighboring cities and other stakeholders. Currently, Ponds B-1, B-2 and B-3 are not configured to receive water or to discharge. These ponds have been reshaped into wetlands after the accelerated action sediment removal activities that concluded in 2005. Pond B-4 is still connected to the bypass and South Walnut Creek flows continue to go through Ponds B-4 and B-5.

A sediment study conducted by Colorado State University (CSU) found radioactive contamination in sediments in the B-Series drainage. Pond reconstruction activities from 1971 to 1973 caused resuspension and downstream migration of contaminated sediment. This resulted in an increase in plutonium-239/240 activity in Pond B-1 sediment from 0.085 curie in 1971 to 2.9 curies in 1973. Based on the CSU sampling, plutonium-239/240 activities in Pond B-1 sediment in June 1973 ranged from 10 to 502 picocuries per gram (pCi/g) of dry sediment.

A Rocky Flats study completed in June 1973 indicated radioactive contamination of sediments upstream from the drainage ponds. This study found an average activity of 40 disintegrations per minute per gram (dpm/g) from the "west culvert" (the culvert west of the Building 995 outfall) to the "east culvert" (the culvert immediately east of the Building 995 outfall). The area of contaminated soil/sediment was estimated to cover approximately 3,900 square feet (ft^2).

Releases to the B-Series drainage included a sodium hydroxide discharge from a bulk caustic storage tank that was diverted to Pond B-1 for temporary holding, a steam condensate line break in the Building 707 area that discharged to Pond B-4 and South Walnut Creek downgradient of Pond B-4, release of approximately 155 gallons of a 25 percent solution of ethylene glycol (antifreeze), and a release of chromic acid to Pond B-3 from the Sewage Treatment Plant (Building 995) that occurred on February 22 and 23, 1989. It is believed that approximately 4.7 pounds of chromium were released to Pond B-3. The water from Pond B-3 was then sprayed on the East Spray Fields (PACs NE-216.1 - 216.3). Analysis of soil/sediment samples indicated that the concentrations

of leachable chromium were far below the RCRA Extraction Procedure (EP) Toxicity limits.

In response to the 1973 identification of plutonium-239/240 contamination in the drainage sediments, a study was conducted to ascertain the source of the plutonium-239/240 contamination present in the B-Series drainage. This study indicated that approximately 88 percent of the total activity released by Building 995 was due to the release of laundry decontamination water to the sanitary sewer. After December 21, 1973, laundry water was only discharged to Pond B-2, and some may have been diverted to Pond A-2. In fall and winter 1973, contaminated soil/sediment removal operations were conducted in the streambed below the Building 995 outfall.

In the early 1980s, actions were taken at Pond B-5 to reduce the potential for off-site movement of contaminated sediments. The discharge structure for this pond was modified by adding a vertical standpipe and a perforated pipe along the bottom of the pond surrounded by granular material. Some sediment present in Pond B-5 was also removed from the drainage and deposited in the Soil Dump Area in the northeastern BZ (PAC NE-156.2 which received NFAA approval in 1999 [EPA and CDPHE 1999]). These activities helped minimize the off-site transport of contaminated sediments (DOE 1992).

In summary, based on historical data pertaining to the B-Series Ponds, the types of contaminants that were detected included plutonium-239/240, americium-241, arsenic, beryllium, gamma-BHC, and methylene chloride. Pond B-1 appeared to have the greatest amount of contamination, with a number of sediment sample results that exceeded the corresponding RFCA WRW soil ALs for plutonium-239/240 and americium-241. Several sediment samples in Ponds B-2 and B-3 also exceeded RFCA WRW soil ALs for plutonium-239/240 and americium-241. Historical sample results from Pond B-4 and Pond B-5 were less than RFCA WRW soil ALs. In 2005, sediment from Ponds B-1, B-2, and B-3 was excavated, and the ponds were backfilled (DOE 2005b).

C-Series Ponds

In Woman Creek, Pond C-1 was once an actively managed pond; however, it was recently reconfigured to be a flow-through pond. The dam was notched and the gap filled with a stop log structure that allows for adjusting the water level in the pond as conditions dictate. Woman Creek flows through Pond C-1, as it always has, and is diverted around Pond C-2. The southern portion of the Site drains into the SID, which flows to Pond C-2. Pond C-2 is off-channel and does not normally receive flow from Woman Creek. Pond C-2 water is released into the creek as it flows off site toward the Woman Creek Reservoir on the eastern side of Indiana Street. The Pond C-2 outlet works were repaired to allow continued operation after Site closure.

Pond C-1 was built in 1955 to provide temporary holding and monitoring of Woman Creek water and water discharged from RFETS Pond 6, Pond 7 (PAC SE-1600), and Pond 8 (PAC SE-1601). These ponds are no longer in existence. Pond C-2 and the SID were built in 1979. The SID was built to reroute runoff from the southern portions of the

RFETS IA to Pond C-2. Water from the SID was the only input to Pond C-2, allowing Pond C-2 to serve as a surface water retention and spill control pond. Discharges from Pond C-1 are routed around Pond C-2 and back into the natural Woman Creek channel.

Releases into the Woman Creek drainage included water treatment plant (Building 124) backwash (PAC SW-196); 2,700 gallons of steam condensate from the Building 881 cooling towers (PAC SE-1600); sanitary sewer overflow and discharge of untreated sanitary sewage (PAC 800-145); Building 881 cooling tower overflow/blowdown (PAC SE-1601); ash from the Plant incinerator (PACs SW-133, SW-1701, and SW-1702); dumping of graphite, used caustic drums, and general trash at the Original Landfill (PAC SW-115); resuspended soil and runoff from the 903 Pad area (IHSS Group 900-11); fuel/oil discharge from an overturned armored vehicle; leakage from the SID to Woman Creek; direct runoff from the East Spray Fields (PACs NE-216.1 - NE-216.3); spill of waste acid into the SID; and measurable quantities of atrazine in Pond C-2. No sediment samples collected from Pond C-1 and Pond C-2 exceeded RFCA WRW soil ALs. Pond C-1 received NFAA approval in 2004 (EPA 2004). Additional accelerated actions included removal of the 903 Pad, radioactively contaminated soil under and around the 903 Pad, and radioactively contaminated soil downwind from the 903 Pad (PAC 900-155).

2.2 Characterization Data

Ponds A-1, A-2, A-3, A-4, A-5, B-4, B-5, C-1, and C-2 were sampled in accordance with IABZSAP Addendum #IABZ05-06 (DOE 2005d), approved by the U.S. Environmental Protection Agency (EPA) on July 20, 2005. The 2005 sampling postdated the completion of demolition and accelerated actions in the IA. CRA targeted samples were collected in accordance with CRA SAP Addendum #05-01, Phase 2 Targeted Sampling (DOE 2004c), approved by EPA and CDPHE on December 2, 2004 (EPA and CDPHE 2004). Previous samples were collected as part of the OU 6 investigation (DOE 1992). Additional samples were collected at previously sampled locations in 1994 and tested for polychlorinated biphenyls (PCBs). The sampling summary is presented in Table 2.

Sampling locations for the recent sampling, in accordance with IABZSAP Addendum #05-06, were determined based on the consultative process. DOE and the regulatory agencies reviewed historical sampling locations, pond topography, flow paths, and depth to pond bottom to determine the best sampling locations. Additionally, DOE and the regulatory agencies evaluated the ponds that were dry, in the field to further refine sampling locations. Where ponds could not be physically evaluated, DOE provided information to the agencies, before, during, and after sampling via e-mail and at consultative process and field update meetings. Sometimes this resulted in samples outside of what is portrayed as the pond or IHSS boundary on figures in this report. Both the pond and IHSS boundaries are representations of pond extent at the time the feature was mapped. Changes over time in the depth and extent of the ponds are likely and the maps are not necessarily up-to-date with regard to pond boundaries.

Analytical results for IHSS Group NE-1 sediment samples are summarized in Table 3. Data presented include all data collected since July 1991 until present. Data include results from recent pond sampling, CRA targeted sampling at the Ponds, and past OU

Table 2
Ponds Sampling Specifications

Pond	Location Code	Collection Date	Northing	Easting	Starting Depth (ft)	Ending Depth (ft)	Media	Analytes
Pond A-1	CR53-000	5-Jul-05	752005.129	2086315.282	0	0.5	Surface Sediment	Radionuclides, Metals, PCBs, SVOCs
Pond A-1	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	Subsurface Sediment	Radionuclides, Metals, PCBs, SVOCs, VOCs, Dioxins/Furans
Pond A-1	CS53-000	21-Dec-04	752020.308	2086557.898	3	5	Subsurface Soil	Radionuclides, Metals, PCBs, SVOCs, VOCs, Dioxins/Furans
Pond A-1	CS53-000	21-Dec-04	752020.308	2086557.898	5	7	Subsurface Soil	Radionuclides, Metals, PCBs, SVOCs, VOCs, Dioxins/Furans
Pond A-1	CS53-000	21-Dec-04	752020.308	2086557.898	7	9	Subsurface Soil	Radionuclides, Metals, PCBs, SVOCs, VOCs, Dioxins/Furans
Pond A-1	CS53-001	5-Jul-05	752025.903	2086537.320	0	0.5	Surface Sediment	Radionuclides, Metals, PCBs, SVOCs
Pond A-1	CS53-002	5-Jul-05	752014.737	2086473.525	0	0.5	Surface Sediment	Radionuclides, Metals, PCBs, SVOCs
Pond A-1	CS53-002	5-Jul-05	752014.737	2086473.525	0.5	2.5	Subsurface Sediment	Radionuclides, Metals, PCBs, SVOCs
Pond A-1	CS53-003	5-Jul-05	751997.169	2086380.879	0	0.5	Surface Sediment	Radionuclides, Metals, PCBs, SVOCs
Pond A-1	CS53-003	5-Jul-05	751997.169	2086380.879	0.5	2.5	Subsurface Sediment	Radionuclides, Metals, PCBs, SVOCs
Pond A-1	SED60092	29-Oct-92	752021.870	2086548.620	0	1.5	Subsurface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond A-1	SED60092	6-Jun-94	752021.870	2086548.620	0	0.5	Surface Sediment	Radionuclides, PCBs
Pond A-1	SED60192	2-Nov-92	751985.810	2086278.370	0	1.17	Subsurface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond A-1	SED60192	6-Jun-94	751985.810	2086278.370	0	0.5	Surface Sediment	Radionuclides, PCBs

Pond	Location Code	Collection Date	Northing	Easting	Starting Depth (ft)	Ending Depth (ft)	Media	Analytes
Pond A-1	SED60292	29-Oct-92	751974.500	2086478.120	0	1.42	Subsurface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond A-1	SED60292	6-Jun-94	751974.500	2086478.120	0	0.5	Surface Sediment	Radionuclides, PCBs
Pond A-1	SED60392	29-Oct-92	752038.370	2086502.500	0	1.25	Subsurface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond A-1	SED60392	6-Jun-94	752038.370	2086502.500	0	0.5	Surface Sediment	Radionuclides, PCBs
Pond A-2	CV54-000	19-Jul-05	752132.906	2087012.03	0	0.5	Surface Sediment	Radionuclides, Metals, PCBs
Pond A-2	CW53-000	18-Jul-05	752155.424	2087165.037	0	0.5	Surface Sediment	Radionuclides, Metals, PCBs, SVOCs
Pond A-2	CW53-000	18-Jul-05	752155.424	2087165.037	0.5	1.8	Subsurface Sediment	Radionuclides, Metals, PCBs, SVOCs
Pond A-2	CW54-002	18-Jul-05	752161.044	2087330.500	0	0.5	Surface Sediment	Radionuclides, Metals, PCBs, SVOCs
Pond A-2	CW54-000	22-Dec-04	752172.691	2087344.578	0	0.5	Surface Sediment	Radionuclides, Metals, PCBs, SVOCs, VOCs, Dioxin/Furan
Pond A-2	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	Subsurface Sediment	Radionuclides, Metals, PCBs, SVOCs, VOCs, Dioxins/Furans
Pond A-2	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	Subsurface Sediment	Radionuclides, Metals, PCBs, SVOCs, VOCs, Dioxins/Furans
Pond A-2	CW54-000	22-Dec-04	752172.691	2087344.578	4.5	6.5	Subsurface soil	Radionuclides, Metals, PCBs, SVOCs, VOCs, Dioxins/Furans
Pond A-2	CW54-000	22-Dec-04	752172.691	2087344.578	6.5	8.5	Subsurface soil	Radionuclides, Metals, PCBs, SVOCs, VOCs, Dioxins/Furans
Pond A-2	SED60692	12-Nov-92	752108.560	2087257.000	0	0.83	Surface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond A-2	SED60692	1-Jun-94	752108.560	2087257.000	0	0.5	Surface Sediment	Radionuclides, PCBs

Pond	Location Code	Collection Date	Northing	Easting	Starting Depth (ft)	Ending Depth (ft)	Media	Analytes
Pond A-2	SED60792	12-Nov-92	752173.870	2087291.120	0	1	Surface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond A-2	SED60792	1-Jun-94	752173.870	2087291.120	0	0.5	Surface Sediment	Radionuclides, PCBs
Pond A-2	SED60892	12-Nov-92	752175.370	2087329.120	0	1.33	Subsurface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond A-2	SED60892	1-Jun-94	752175.370	2087329.120	0	0.5	Surface Sediment	Radionuclides
Pond A-3	DA54-000	29-Jul-05	752283.517	2087983.836	0	0.8	Surface Sediment	Radionuclides, Metals
Pond A-3	DA55-001	29-Jul-05	752331.359	2088104.614	0	0.9	Surface Sediment	Radionuclides, Metals
Pond A-3	DB55-000	28-Jul-05	752563.216	2088328.103	0	0.5	Surface Sediment	Radionuclides, Metals
Pond A-3	DC55-000	29-Jul-05	752403.172	2088400.517	0	0.9	Surface Sediment	Radionuclides, Metals
Pond A-3	SED61092	21-Oct-92	752377.930	2088256.750	0	2	Subsurface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond A-3	SED61092	21-Jun-94	752377.930	2088256.750	0	0.5	Surface Sediment	PCBs
Pond A-3	SED61192	21-Oct-92	752367.120	2088213.000	0	1.33	Subsurface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond A-3	SED61192	21-Jun-94	752367.120	2088213.000	0	0.5	Surface Sediment	PCBs
Pond A-3	SED61292	22-Oct-92	752289.250	2088051.750	0	1	Surface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond A-3	SED61292	21-Jun-94	752289.250	2088051.750	0	0.5	Surface Sediment	PCBs
Pond A-3	SED61392	21-Oct-92	752518.750	2088293.870	0	1.33	Subsurface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs

Pond	Location Code	Collection Date	Northing	Easting	Starting Depth (ft)	Ending Depth (ft)	Media	Analytes
Pond A-3	SED61392	21-Jun-94	752518.750	2088293.870	0	0.5	Surface Sediment	PCBs
Pond A-4	DF57-000	21-Jul-05	752948.912	2089306.276	0	0.5	Surface Sediment	Radionuclides, Metals
Pond A-4	DF57-000	21-Jul-05	752948.912	2089306.276	0	2	Subsurface Sediment	Radionuclides, Metals
Pond A-4	DG57-000	21-Jul-05	752985.248	2089521.445	0	0.5	Surface Sediment	Radionuclides, Metals
Pond A-4	DG57-000	21-Jul-05	752985.248	2089521.445	0.5	1.3	Subsurface Sediment	Radionuclides, Metals
Pond A-4	DG58-000	21-Jul-05	752859.330	2089342.488	0	0.5	Surface Sediment	Radionuclides, Metals
Pond A-4	DG58-000	21-Jul-05	752859.330	2089342.488	0.5	1.5	Subsurface Sediment	Radionuclides, Metals
Pond A-4	DI57-000	21-Jul-05	752874.281	2089750.202	0	0.5	Surface Sediment	Radionuclides, Metals
Pond A-4	DI58-000	21-Jul-05	753150.536	2089579.320	0	0.5	Surface Sediment	Radionuclides, Metals
Pond A-4	SED61592	14-Oct-92	752864.120	2089474.370	0	0.67	Surface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond A-4	SED61592	5-Jul-94	752864.120	2089474.370	0	0.5	Surface Sediment	PCBs
Pond A-4	SED61692	14-Oct-92	752957.620	2089755.750	0	0.33	Surface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond A-4	SED61692	5-Jul-94	752957.620	2089755.750	0	0.5	Surface Sediment	PCBs
Pond A-4	SED61792	15-Oct-92	752938.430	2089465.500	0	0.67	Surface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond A-4	SED61792	6-Jul-94	752938.430	2089465.500	0	0.5	Surface Sediment	PCBs

Pond	Location Code	Collection Date	Northing	Easting	Starting Depth (ft)	Ending Depth (ft)	Media	Analytes
Pond A-4	SED61892	19-Oct-92	753000.430	2089699.500	0	0.42	Surface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond A-4	SED61892	5-Jul-94	753000.430	2089699.500	0	0.5	Surface Sediment	PCBs
Pond A-5	A50102	14-Jan-02	753646.978	2093596.835	0.083	0.167	Surface Soil	Radionuclides, Metals, VOCs
Pond A-5	A50202	14-Jan-02	753661.228	2093604.27	0.083	0.167	Surface Soil	Radionuclides, Metals, VOCs
Pond A-5	A50302	14-Jan-02	753737.746	2093577.628	0.083	0.167	Surface Soil	Metals, VOCs
Pond A-5	A50402	14-Jan-02	753725.355	2093603.65	0.083	0.167	Surface Soil	Metals, VOCs
Pond A-5	A50502	14-Jan-02	753708.006	2093622.857	0.083	0.167	Surface Soil	Metals, VOCs
Pond A-5	A50602	14-Jan-02	753681.365	2093640.205	0.083	0.167	Surface Soil	Metals, VOCs
Pond A-5	A50702	14-Jan-02	753654.723	2093656.934	0.083	0.167	Surface Soil	Metals, VOCs
Pond A-5	A50802	14-Jan-02	753628.701	2093666.847	0.083	0.167	Surface Soil	Metals, VOCs
Pond A-5	EB61-000	13-Jul-05	753731.921	2093482.234	0	0.5	Surface Sediment	Radionuclides, Metals
Pond A-5	EC61-000	13-Jul-05	753691.407	2093528.381	0	0.5	Surface Sediment	Radionuclides, Metals
Pond A-5	EC61-001	13-Jul-05	753650.537	2093583.011	0	0.5	Surface Sediment	Radionuclides, Metals
Pond A-5	EC61-001	13-Jul-05	753650.537	2093583.011	0.5	2.5	Subsurface Sediment	Radionuclides, Metals
Pond A-5	SED64692	19-Nov-92	753622.870	2093562.250	0	1.92	Subsurface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs

Pond	Location Code	Collection Date	Northing	Easting	Starting Depth (ft)	Ending Depth (ft)	Media	Analytes
Pond A-5	SED64592	19-Nov-92	753658.180	2093536.120	0	0.5	Surface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond A-5	SED64792	19-Nov-92	753756.750	2093507.370	0	0.42	Surface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond A-5	SED64892	19-Nov-92	753678.500	2093564.250	0	1	Surface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond A-5	SED64992	19-Nov-92	753745.930	2093451.620	0	0.67	Surface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond A-5	SED69392	10-Jun-93	753646.000	2093618.000	0	2	Subsurface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond A-5	15197	21-Aug-97	753664.400	2093585.000	0	0.5	Surface Sediment	Radionuclides
Pond A-5	15297	21-Aug-97	753685.500	2093552.000	0	0.5	Surface Sediment	Radionuclides
Pond A-5	15397	21-Aug-97	753727.700	2093485.000	0	0.5	Surface Sediment	Radionuclides
Pond B-4	DB47-002	18-Jul-05	750894.214	2088143.452	0	0.5	Surface Sediment	Radionuclides, Metals, PCBs, SVOCs
Pond B-4	DB47-002	18-Jul-05	750894.214	2088143.452	0.5	2.5	Subsurface Sediment	Radionuclides, Metals, PCBs, SVOCs
Pond B-4	DB47-002	18-Jul-05	750894.214	2088143.452	2.5	4.5	Subsurface Sediment	Radionuclides, Metals, PCBs, SVOCs
Pond B-4	DB47-002	18-Jul-05	750894.214	2088143.452	4.5	6.5	Subsurface Sediment	Radionuclides, Metals, PCBs, SVOCs
Pond B-4	DB47-002	18-Jul-05	750894.214	2088143.452	6.5	8.5	Subsurface Sediment	Radionuclides Metals, PCBs, SVOCs
Pond B-4	DB47-000	14-Jul-05	750852.199	2087964.334	0	0.5	Surface Sediment	Radionuclides, Metals, PCBs, SVOCs
Pond B-4	DB47-001	15-Jul-05	750897.247	2088017.927	0	0.5	Surface Sediment	Radionuclides, Metals, PCBs, SVOCs

Pond	Location Code	Collection Date	Northing	Easting	Starting Depth (ft)	Ending Depth (ft)	Media	Analytes
Pond B-4	DB47-001	15-Jul-05	750897.247	2088017.927	0.5	2.5	Subsurface Sediment	Radionuclides, Metals, PCBs, SVOCs
Pond B-4	DB47-001	15-Jul-05	750897.247	2088017.927	2.5	4.5	Subsurface Sediment	Radionuclides, Metals, PCBs, SVOCs
Pond B-4	DB47-003	14-Jul-05	750967.875	2088256.475	0	0.5	Surface Sediment	Radionuclides, Metals, PCBs, SVOCs
Pond B-4	DB47-004	14-Jul-05	750950.860	2088251.874	0	0.5	Surface Sediment	Radionuclides, Metals, PCBs, SVOCs
Pond B-4	DB47-004	14-Jul-05	750950.860	2088251.874	0.5	2.5	Subsurface Sediment	Radionuclides, Metals, PCBs, SVOCs
Pond B-4	DB47-004	14-Jul-05	750950.860	2088251.874	2.5	3.9	Subsurface Sediment	Radionuclides, Metals, PCBs, SVOCs
Pond B-4	DB47-005	7/15/2005	750895.601	2088102.267	0	0.5	Surface Sediment	Radionuclides, Metals, PCBs, SVOCs
Pond B-4	DB47-006	22-Aug-05	750950.86	2088251.874	1.0	3.0	Subsurface Sediment	Radionuclides
Pond B-4	SED63592	22-Oct-92	750911.310	2088161.750	0	2	Subsurface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond B-4	SED63592	22-Oct-92	750911.310	2088161.750	0	3.17	Subsurface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond B-4	SED63592	8-Jun-94	750911.310	2088161.750	0	0.5	Surface Sediment	PCBs
Pond B-4	SED63692	26-Oct-92	750932.310	2088212.870	0	1.33	Subsurface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond B-4	SED63692	8-Jun-94	750932.310	2088212.870	0	0.5	Surface Sediment	PCBs
Pond B-4	SED63792	26-Oct-92	750880.810	2088254.750	0	2	Subsurface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond B-4	SED63792	26-Oct-92	750880.810	2088254.750	0	2.5	Subsurface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs

Pond	Location Code	Collection Date	Northing	Easting	Starting Depth (ft)	Ending Depth (ft)	Media	Analytes
Pond B-4	SED63792	8-Jun-94	750880.810	2088254.750	0	0.5	Surface Sediment	PCBs
Pond B-4	SED63892	22-Oct-92	750889.250	2088223.370	0	2	Subsurface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond B-4	SED63892	22-Oct-92	750889.250	2088223.370	0	2.75	Subsurface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond B-4	SED63892	8-Jun-94	750889.250	2088223.370	0	0.5	Surface Sediment	PCBs
Pond B-4	SED63992	26-Oct-92	750909.930	2088138.120	0	1.67	Subsurface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond B-4	SED63992	8-Jun-94	750909.930	2088138.120	0	0.5	Surface Sediment	PCBs
Pond B-5	DF51-000	27-Jul-05	751815.258	2089219.265	0	0.5	Surface Sediment	Radionuclides, Metals
Pond B-5	DF51-000	27-Jul-05	751815.258	2089219.265	0.5	2.5	Subsurface Sediment	Radionuclides, Metals
Pond B-5	DF51-000	27-Jul-05	751815.258	2089219.265	2.5	4.5	Subsurface Sediment	Radionuclides, Metals
Pond B-5	DG52-000	27-Jul-05	751864.462	2089417.365	0	0.8	Surface Sediment	Radionuclides, Metals
Pond B-5	DG52-001	27-Jul-05	751904.539	2089488.993	0	0.9	Surface Sediment	Radionuclides, Metals
Pond B-5	DH52-000	27-Jul-05	751942.137	2089531.175	0	0.8	Surface Sediment	Radionuclides, Metals
Pond B-5	DH53-000	26-Jul-05	752034.017	2089542.971	0	0.5	Surface Sediment	Radionuclides, Metals
Pond B-5	B5 Outlet(N)	13-Oct-97	752069.000	2089509.000	0	0.5	Surface Sediment	Metals, VOCs
Pond B-5	B5 Outlet(S)	13-Oct-97	751946.688	2089600.000	0	0.5	Surface Sediment	Metals, VOCs

Pond	Location Code	Collection Date	Northing	Easting	Starting Depth (ft)	Ending Depth (ft)	Media	Analytes
Pond B-5	SED64292	20-Oct-92	752081.620	2089465.500	0	0.33	Surface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond B-5	SED64292	20-Oct-92	752081.620	2089465.500	0	0.5	Surface Sediment	PCBs
Pond B-5	SED64392	20-Oct-92	751994.310	2089520.500	0	1	Surface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond B-5	SED64392	20-Oct-92	751994.310	2089520.500	0	0.5	Surface Sediment	PCBs
Pond B-5	SED64192	19-Oct-92	751923.500	2089540.120	0	0.42	Surface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond B-5	SED64192	15-Jun-94	751923.500	2089540.120	0	0.5	Surface Sediment	PCBs
Pond B-5	SED64092	19-Oct-92	751734.180	2089080.370	0	0.75	Surface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond B-5	SED64092	10-Jun-94	751734.180	2089080.370	0	0.5	Surface Sediment	PCBs
Pond B-5	SED64492	20-Oct-92	751639.250	2088979.870	0	0.33	Surface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond B-5	SED64492	10-Jun-94	751639.250	2088979.870	0	0.5	Surface Sediment	PCBs
Pond B-5	B5	4-May-92	752055.625	2089580.000	0	0.58	Surface Sediment	Pesticides
Pond C-1	C1	5-Jun-92	747697.625	2086319.000	0	0.5	Surface Sediment	Pesticides
Pond C-1	CR31-000	24-Sep-02	747595.140	2086237.150	0	0.5	Surface Sediment	Radionuclides, Metals
Pond C-1	CR31-000	24-Sep-02	747595.140	2086237.150	0.5	1.5	Subsurface Sediment	Radionuclides, Metals
Pond C-1	CR31-000	24-Sep-02	747595.140	2086237.150	1.5	2.5	Subsurface Sediment	Radionuclides, Metals

Pond	Location Code	Collection Date	Northing	Easting	Starting Depth (ft)	Ending Depth (ft)	Media	Analytes
Pond C-1	CR31-001	25-Sep-02	747724.580	2086262.200	0	0.5	Surface Sediment	Radionuclides, Metals
Pond C-1	CR31-001	25-Sep-02	747724.580	2086262.200	0.5	1.5	Subsurface Sediment	Radionuclides, Metals
Pond C-1	CR31-001	25-Sep-02	747724.580	2086262.200	1.5	2	Subsurface Sediment	Radionuclides, Metals
Pond C-1	CR31-002	24-Sep-02	747597.863	2086311.578	0	0.5	Surface Sediment	Radionuclides, Metals
Pond C-1	CR31-003	24-Sep-02	747673.609	2086234.789	0	0.5	Surface Sediment	Radionuclides, Metals
Pond C-1	CR31-005	19-Jul-05	747761.433	2086268.068	0	0.5	Surface Sediment	Radionuclides, Metals, PCBs
Pond C-1	CR31-006	19-Jul-05	747595.098	2086246.573	0	0.5	Surface Sediment	Radionuclides, Metals, PCBs
Pond C-1	CR31-006	19-Jul-05	747595.098	2086246.573	0.5	2	Subsurface Sediment	Radionuclides, Metals, PCBs
Pond C-1	CR31-007	19-Jul-05	747623.150	2086198.663	0	0.5	Surface Sediment	Radionuclides, Metals, PCBs
Pond C-1	CR31-008	20-Jul-05	747628.949	2086326.739	0	0.5	Surface Sediment	Radionuclides, Metals, PCBs, SVOCs
Pond C-1	CR31-008	20-Jul-05	747628.949	2086326.739	0.5	1.8	Subsurface Sediment	Radionuclides, Metals, PCBs, SVOCs
Pond C-1	SED509	9-Nov-92	747611.000	2086226.250	0	0.83	Surface Sediment	Radionuclides, Metals
Pond C-1	SED509	9-Nov-92	747611.000	2086226.250	0.5	1	Surface Sediment	Radionuclides
Pond C-1	SED510	9-Nov-92	747647.930	2086293.000	0	0.92	Surface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond C-1	SED510	9-Nov-92	747647.930	2086293.000	0.5	1	Surface Sediment	Radionuclides

Pond	Location Code	Collection Date	Northing	Easting	Starting Depth (ft)	Ending Depth (ft)	Media	Analytes
Pond C-2	C2	4-Jun-92	747571.870	2089025.000	0	0.67	Surface Sediment	PCBs, Pesticides
Pond C-2	DD31-000	12-Jul-05	747619.303	2088681.197	0	0.5	Surface Sediment	Radionuclides, Metals
Pond C-2	DD31-000	12-Jul-05	747619.303	2088681.197	0.5	1	Surface Sediment	Radionuclides, Metals
Pond C-2	DE30-000	12-Jul-05	747548.320	2088808.071	0	0.5	Surface Sediment	Radionuclides, Metals
Pond C-2	DE30-000	12-Jul-05	747548.320	2088808.071	0.5	2.5	Subsurface Sediment	Radionuclides, Metals
Pond C-2	DE31-000	12-Jul-05	747684.510	2088966.097	0	0.5	Surface Sediment	Radionuclides, Metals
Pond C-2	DE31-000	12-Jul-05	747684.510	2088966.097	0.5	1.7	Subsurface Sediment	Radionuclides, Metals
Pond C-2	DF29-000	12-Jul-05	747385.391	2088944.987	0	0.5	Surface Sediment	Radionuclides, Metals
Pond C-2	DF30-000	12-Jul-05	747515.288	2088895.438	0	0.5	Surface Sediment	Radionuclides, Metals
Pond C-2	SED511	10-Nov-92	747717.120	2088621.000	0	0.42	Surface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond C-2	SED512	10-Nov-92	747570.560	2088928.000	0	0.33	Surface Sediment	Radionuclides, Metals, PCBs, Pesticides, SVOCs, VOCs
Pond C-2	SED513	10-Nov-92	747499.250	2088999.870	0	0.42	Surface Sediment	Radionuclides, Metals, VOCs

Table 3
IHSS Group NE-1 Soil and Sediment Results Greater Than Background Means Plus Two Standard Deviations or RLs

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
Pond A-1												
SED	CR53-000	07-Jul-05	752005.129	2086315.282	0	0.5	Aluminum	23000	-	15713.07	228000	mg/kg
SED	CR53-000	07-Jul-05	752005.129	2086315.282	0	0.5	Americium-241	1.01	-	0.27	76	pCi/g
SED	CR53-000	07-Jul-05	752005.129	2086315.282	0	0.5	Arsenic	7.9	-	7.24	22.2	mg/kg
SED	CR53-000	07-Jul-05	752005.129	2086315.282	0	0.5	Barium	210	-	188.17	26400	mg/kg
SED	CR53-000	07-Jul-05	752005.129	2086315.282	0	0.5	Benzo(a)anthracene	120	25	-	34900	ug/kg
SED	CR53-000	07-Jul-05	752005.129	2086315.282	0	0.5	Benzo(a)pyrene	150	25	-	3490	ug/kg
SED	CR53-000	07-Jul-05	752005.129	2086315.282	0	0.5	Benzo(b)fluoranthene	180	66	-	34900	ug/kg
SED	CR53-000	07-Jul-05	752005.129	2086315.282	0	0.5	Benzo(k)fluoranthene	100	50	-	349000	ug/kg
SED	CR53-000	07-Jul-05	752005.129	2086315.282	0	0.5	Chrysene	150	34	-	3490000	ug/kg
SED	CR53-000	07-Jul-05	752005.129	2086315.282	0	0.5	Fluoranthene	300	45	-	27200000	ug/kg
SED	CR53-000	07-Jul-05	752005.129	2086315.282	0	0.5	Indeno(1,2,3-cd)pyrene	90	28	-	34900	ug/kg
SED	CR53-000	07-Jul-05	752005.129	2086315.282	0	0.5	Iron	22000	-	21379.01	307000	mg/kg
SED	CR53-000	07-Jul-05	752005.129	2086315.282	0	0.5	Nickel	20	-	17.89	20400	mg/kg
SED	CR53-000	07-Jul-05	752005.129	2086315.282	0	0.5	Plutonium-239/240	3.44	-	1.35	50	pCi/g
SED	CR53-000	07-Jul-05	752005.129	2086315.282	0	0.5	Vanadium	48	-	46.83	7150	mg/kg
SED	CR53-000	07-Jul-05	752005.129	2086315.282	0	0.5	Zinc	130	-	104.4	307000	mg/kg
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	1,2,3,4,6,7,8-HpCDF	29.8	1.84	-	-	pg/g
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	1,2,3,6,7,8-HxCDD	4.55	1.84	-	-	pg/g
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	1,2,3,7,8,9-HxCDD	3.29	1.84	-	-	pg/g
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	1,2,3,7,8-PeCDF	1.97	1.84	-	-	pg/g
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	1,2,3,7,8-PeCDD	1.84	1.84	-	-	pg/g
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	1234678-HpCDD	94.6	1.84	-	-	pg/g
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	1234789-HpCDF	2.43	1.84	-	-	pg/g
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	123478-HxCDD	1.26	1.84	-	-	pg/g
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	123478-HxCDF	3.71	1.84	-	-	pg/g
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	123678-HxCDF	2.5	1.84	-	-	pg/g
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	123789-HxCDF	1.84	1.84	-	-	pg/g

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	2,3,4,6,7,8-HxCDF	1.99	1.84	-	-	pg/g
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	2,3,7,8-TCDF	6.12	0.735	-	-	pg/g
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	23478-PeCDF	4.29	1.84	-	-	pg/g
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	Acetone	11	7.2	-	102000000	ug/kg
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	Aluminum	29000	-	15713.07	228000	mg/kg
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	Americium-241	5.97	-	0.27	76	pCi/g
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	Aroclor-1260	150	2.2	-	12400	ug/kg
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	Arsenic	7.7	-	7.24	22.2	mg/kg
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	Barium	230	-	188.17	26400	mg/kg
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	Cadmium	2	-	1.88	962	mg/kg
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	Chromium	28	-	23.23	268	mg/kg
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	Copper	43	-	27.27	40900	mg/kg
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	Dioxin	2.78	0.735	-	-	pg/g
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	Indeno(1,2,3-cd)pyrene	210	34	-	34900	ug/kg
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	Iron	23000	-	21379.01	307000	mg/kg
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	Methylene chloride	3.7	1.3	-	2530000	ug/kg
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	Nickel	22	-	17.89	20400	mg/kg
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	O8CDD	539	3.68	-	-	pg/g
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	OCDF	40.9	3.68	-	-	pg/g
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	Phenol	54	53	-	613000000	ug/kg
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	Plutonium-239/240	16.2	-	1.35	50	pCi/g
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	Uranium-235	0.352	-	0.15	8	pCi/g
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	Uranium-238	4.06	-	3.46	351	pCi/g
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	Vanadium	57	-	46.83	7150	mg/kg
SED	CS53-000	21-Dec-04	752020.308	2086557.898	1.5	3	Zinc	120	-	104.4	307000	mg/kg
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	3	5	1,2,3,4,6,7,8-HpCDF	0.501	1.4	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	3	5	1,2,3,6,7,8-HxCDD	1.4	1.4	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	3	5	1,2,3,7,8,9-HxCDD	1.4	1.4	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	3	5	1,2,3,7,8-PeCDF	1.4	1.4	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	3	5	1,2,3,7,8-PeCDD	1.4	1.4	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	3	5	1234678-HpCDD	0.708	1.4	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	3	5	1234789-HpCDF	0.182	1.4	-	-	pg/g

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	3	5	123478-HxCDD	1.4	1.4	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	3	5	123478-HxCDF	0.256	1.4	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	3	5	123678-HxCDF	1.4	1.4	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	3	5	123789-HxCDF	1.4	1.4	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	3	5	2,3,4,6,7,8-HxCDF	1.4	1.4	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	3	5	2,3,7,8-TCDF	0.559	0.559	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	3	5	23478-PeCDF	1.4	1.4	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	3	5	2-Butanone	9.8	5.6	-	192000000	ug/kg
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	3	5	Acetone	94	5.5	-	102000000	ug/kg
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	3	5	Cadmium	1.8	-	1.7	962	mg/kg
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	3	5	Carbon Disulfide	2.5	1.1	-	15100000	ug/kg
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	3	5	Dioxin	0.226	0.559	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	3	5	Iron	85000	-	41046.52	307000	mg/kg
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	3	5	Methylene chloride	2.3	0.95	-	2530000	ug/kg
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	3	5	O8CDD	3.79	2.8	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	3	5	OCDF	0.65	2.8	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	5	7	1,2,3,4,6,7,8-HpCDF	1.38	1.38	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	5	7	1,2,3,6,7,8-HxCDD	1.38	1.38	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	5	7	1,2,3,7,8,9-HxCDD	1.38	1.38	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	5	7	1,2,3,7,8-PeCDF	1.38	1.38	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	5	7	1,2,3,7,8-PeCDD	1.38	1.38	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	5	7	1234678-HpCDD	1.38	1.38	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	5	7	1234789-HpCDF	1.38	1.38	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	5	7	123478-HxCDD	1.38	1.38	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	5	7	123478-HxCDF	1.38	1.38	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	5	7	123678-HxCDF	1.38	1.38	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	5	7	123789-HxCDF	1.38	1.38	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	5	7	2,3,4,6,7,8-HxCDF	1.38	1.38	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	5	7	2,3,7,8-TCDF	0.552	0.552	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	5	7	23478-PeCDF	1.38	1.38	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	5	7	Acetone	21	5.3	-	102000000	ug/kg
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	5	7	Cadmium	2.3	-	1.7	962	mg/kg

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	5	7	Cobalt	55	-	29.04	1550	mg/kg
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	5	7	Dioxin	0.552	0.552	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	5	7	Iron	110000	-	41046.52	307000	mg/kg
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	5	7	Manganese	1400	-	901.62	3480	mg/kg
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	5	7	Methylene chloride	2.7	0.93	-	2530000	ug/kg
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	5	7	Nickel	190	-	62.21	20400	mg/kg
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	5	7	O8CDD	2.76	2.76	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	5	7	OCDF	2.76	2.76	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	5	7	Toluene	0.98	0.91	-	31300000	ug/kg
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	5	7	Uranium, Total	5.7	-	3.04	2750	mg/kg
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	5	7	Zinc	300	-	139.1	307000	mg/kg
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	7	9	1,2,3,4,6,7,8-HPCDF	1.35	1.35	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	7	9	1,2,3,6,7,8-HxCDD	1.35	1.35	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	7	9	1,2,3,7,8,9-HxCDD	1.35	1.35	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	7	9	1,2,3,7,8-PeCDF	1.35	1.35	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	7	9	1,2,3,7,8-PeCDD	1.35	1.35	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	7	9	1234678-HpCDD	1.35	1.35	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	7	9	1234789-HpCDF	1.35	1.35	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	7	9	123478-HxCDD	1.35	1.35	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	7	9	123478-HxCDF	1.35	1.35	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	7	9	123678-HxCDF	1.35	1.35	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	7	9	123789-HxCDF	1.35	1.35	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	7	9	2,3,4,6,7,8-HxCDF	1.35	1.35	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	7	9	2,3,7,8-TCDF	0.54	0.54	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	7	9	23478-PeCDF	1.35	1.35	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	7	9	Acetone	15	5.3	-	102000000	ug/kg
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	7	9	Dioxin	0.54	0.54	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	7	9	Methylene chloride	2.4	0.93	-	2530000	ug/kg
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	7	9	O8CDD	0.518	2.7	-	-	pg/g
Soil	CS53-000	21-Dec-04	752020.308	2086557.898	7	9	OCDF	2.7	2.7	-	-	pg/g
SED	CS53-001	07-Jul-05	752025.903	2086537.320	0	0.5	Aluminum	25000	-	15713.07	228000	mg/kg
SED	CS53-001	07-Jul-05	752025.903	2086537.320	0	0.5	Americium-241	2.71	-	0.27	76	pCi/g

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
SED	CS53-001	07-Jul-05	752025.903	2086537.320	0	0.5	Arsenic	8.9	-	7.24	22.2	mg/kg
SED	CS53-001	07-Jul-05	752025.903	2086537.320	0	0.5	Barium	220	-	188.17	26400	mg/kg
SED	CS53-001	07-Jul-05	752025.903	2086537.320	0	0.5	Benzo(a)anthracene	92	31	-	34900	ug/kg
SED	CS53-001	07-Jul-05	752025.903	2086537.320	0	0.5	Benzo(a)pyrene	110	31	-	3490	ug/kg
SED	CS53-001	07-Jul-05	752025.903	2086537.320	0	0.5	Benzo(b)fluoranthene	120	81	-	34900	ug/kg
SED	CS53-001	07-Jul-05	752025.903	2086537.320	0	0.5	Benzo(k)fluoranthene	72	61	-	349000	ug/kg
SED	CS53-001	07-Jul-05	752025.903	2086537.320	0	0.5	Chromium	25	-	23.23	268	mg/kg
SED	CS53-001	07-Jul-05	752025.903	2086537.320	0	0.5	Chrysene	110	41	-	3490000	ug/kg
SED	CS53-001	07-Jul-05	752025.903	2086537.320	0	0.5	Fluoranthene	200	55	-	27200000	ug/kg
SED	CS53-001	07-Jul-05	752025.903	2086537.320	0	0.5	Indeno(1,2,3-cd)pyrene	62	34	-	34900	ug/kg
SED	CS53-001	07-Jul-05	752025.903	2086537.320	0	0.5	Iron	22000	-	21379.01	307000	mg/kg
SED	CS53-001	07-Jul-05	752025.903	2086537.320	0	0.5	Nickel	22	-	17.89	20400	mg/kg
SED	CS53-001	07-Jul-05	752025.903	2086537.320	0	0.5	Plutonium-239/240	7.91	-	1.35	50	pCi/g
SED	CS53-001	07-Jul-05	752025.903	2086537.320	0	0.5	Selenium	1.8	-	1.55	5110	mg/kg
SED	CS53-001	07-Jul-05	752025.903	2086537.320	0	0.5	Vanadium	50	-	46.83	7150	mg/kg
SED	CS53-001	07-Jul-05	752025.903	2086537.320	0	0.5	Zinc	140	-	104.4	307000	mg/kg
SED	CS53-002	07-Jul-05	752014.737	2086473.525	0	0.5	Americium-241	0.927	-	0.27	76	pCi/g
SED	CS53-002	07-Jul-05	752014.737	2086473.525	0	0.5	Benzo(a)anthracene	73	29	-	34900	ug/kg
SED	CS53-002	07-Jul-05	752014.737	2086473.525	0	0.5	Benzo(b)fluoranthene	130	78	-	34900	ug/kg
SED	CS53-002	07-Jul-05	752014.737	2086473.525	0	0.5	Chrysene	82	40	-	3490000	ug/kg
SED	CS53-002	07-Jul-05	752014.737	2086473.525	0	0.5	Fluoranthene	170	53	-	27200000	ug/kg
SED	CS53-002	07-Jul-05	752014.737	2086473.525	0	0.5	Plutonium-239/240	3.35	-	1.35	50	pCi/g
SED	CS53-002	07-Jul-05	752014.737	2086473.525	0.5	2.5	Aluminum	22000	-	15713.07	228000	mg/kg
SED	CS53-002	07-Jul-05	752014.737	2086473.525	0.5	2.5	Americium-241	3.64	-	0.27	76	pCi/g
SED	CS53-002	07-Jul-05	752014.737	2086473.525	0.5	2.5	Anthracene	52	26	-	204000000	ug/kg
SED	CS53-002	07-Jul-05	752014.737	2086473.525	0.5	2.5	Aroclor-1254	5200	8.5	-	12400	ug/kg
SED	CS53-002	07-Jul-05	752014.737	2086473.525	0.5	2.5	Arsenic	7.5	-	7.24	22.2	mg/kg
SED	CS53-002	07-Jul-05	752014.737	2086473.525	0.5	2.5	Barium	190	-	188.17	26400	mg/kg
SED	CS53-002	07-Jul-05	752014.737	2086473.525	0.5	2.5	Benzo(a)anthracene	190	30	-	34900	ug/kg
SED	CS53-002	07-Jul-05	752014.737	2086473.525	0.5	2.5	Benzo(a)pyrene	210	30	-	3490	ug/kg
SED	CS53-002	07-Jul-05	752014.737	2086473.525	0.5	2.5	Benzo(b)fluoranthene	260	80	-	34900	ug/kg
SED	CS53-002	07-Jul-05	752014.737	2086473.525	0.5	2.5	Benzo(k)fluoranthene	120	60	-	349000	ug/kg

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
SED	CS53-002	07-Jul-05	752014.737	2086473.525	0.5	2.5	bis(2-Ethylhexyl)phthalate	230	47	-	1970000	ug/kg
SED	CS53-002	07-Jul-05	752014.737	2086473.525	0.5	2.5	Cadmium	8.3	-	1.88	962	mg/kg
SED	CS53-002	07-Jul-05	752014.737	2086473.525	0.5	2.5	Chromium	30	-	23.23	268	mg/kg
SED	CS53-002	07-Jul-05	752014.737	2086473.525	0.5	2.5	Chrysene	220	41	-	3490000	ug/kg
SED	CS53-002	07-Jul-05	752014.737	2086473.525	0.5	2.5	Copper	33	-	27.27	40900	mg/kg
SED	CS53-002	07-Jul-05	752014.737	2086473.525	0.5	2.5	Fluoranthene	510	54	-	27200000	ug/kg
SED	CS53-002	07-Jul-05	752014.737	2086473.525	0.5	2.5	Indeno(1,2,3-cd)pyrene	140	33	-	34900	ug/kg
SED	CS53-002	07-Jul-05	752014.737	2086473.525	0.5	2.5	Mercury	0.47	-	0.34	25200	mg/kg
SED	CS53-002	07-Jul-05	752014.737	2086473.525	0.5	2.5	Nickel	24	-	17.89	20400	mg/kg
SED	CS53-002	07-Jul-05	752014.737	2086473.525	0.5	2.5	Plutonium-239/240	8.86	-	1.35	50	pCi/g
SED	CS53-002	07-Jul-05	752014.737	2086473.525	0.5	2.5	Selenium	1.6	-	1.55	5110	mg/kg
SED	CS53-002	07-Jul-05	752014.737	2086473.525	0.5	2.5	Zinc	140	-	104.4	307000	mg/kg
SED	CS53-003	07-Jul-05	751997.169	2086380.879	0	0.5	Aluminum	25000	-	15713.07	228000	mg/kg
SED	CS53-003	07-Jul-05	751997.169	2086380.879	0	0.5	Americium-241	6.89	-	0.27	76	pCi/g
SED	CS53-003	07-Jul-05	751997.169	2086380.879	0	0.5	Arsenic	9.3	-	7.24	22.2	mg/kg
SED	CS53-003	07-Jul-05	751997.169	2086380.879	0	0.5	Barium	210	-	188.17	26400	mg/kg
SED	CS53-003	07-Jul-05	751997.169	2086380.879	0	0.5	Benzo(a)anthracene	75	28	-	34900	ug/kg
SED	CS53-003	07-Jul-05	751997.169	2086380.879	0	0.5	Benzo(a)pyrene	83	28	-	3490	ug/kg
SED	CS53-003	07-Jul-05	751997.169	2086380.879	0	0.5	Benzo(b)fluoranthene	83	75	-	34900	ug/kg
SED	CS53-003	07-Jul-05	751997.169	2086380.879	0	0.5	Benzo(k)fluoranthene	63	57	-	349000	ug/kg
SED	CS53-003	07-Jul-05	751997.169	2086380.879	0	0.5	Chromium	24	-	23.23	268	mg/kg
SED	CS53-003	07-Jul-05	751997.169	2086380.879	0	0.5	Chrysene	87	38	-	3490000	ug/kg
SED	CS53-003	07-Jul-05	751997.169	2086380.879	0	0.5	Fluoranthene	190	51	-	27200000	ug/kg
SED	CS53-003	07-Jul-05	751997.169	2086380.879	0	0.5	Indeno(1,2,3-cd)pyrene	50	31	-	34900	ug/kg
SED	CS53-003	07-Jul-05	751997.169	2086380.879	0	0.5	Iron	24000	-	21379.01	307000	mg/kg
SED	CS53-003	07-Jul-05	751997.169	2086380.879	0	0.5	Nickel	21	-	17.89	20400	mg/kg
SED	CS53-003	07-Jul-05	751997.169	2086380.879	0	0.5	Plutonium-239/240	22.4	-	1.35	50	pCi/g
SED	CS53-003	07-Jul-05	751997.169	2086380.879	0	0.5	Vanadium	52	-	46.83	7150	mg/kg
SED	CS53-003	07-Jul-05	751997.169	2086380.879	0	0.5	Zinc	120	-	104.4	307000	mg/kg
SED	CS53-003	07-Jul-05	751997.169	2086380.879	0.5	2.5	Aroclor-1254	55	8.3	-	12400	ug/kg
SED	SED60092	06-Jun-94	752021.870	2086548.620	0	0.5	Americium-241	0.9057	-	0.27	76	pCi/g
SED	SED60092	06-Jun-94	752021.870	2086548.620	0	0.5	Plutonium-239/240	3.3833	-	1.35	50	pCi/g

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
SED	SED60092	06-Jun-94	752021.870	2086548.620	0	0.5	Uranium-235	0.193	-	0.15	8	pCi/g
SED	SED60092	06-Jun-94	752021.870	2086548.620	0	0.5	Uranium-238	4.033	-	3.46	351	pCi/g
SED	SED60092	29-Oct-92	752021.870	2086548.620	0	1.5	Americium-241	12.25	-	0.27	76	pCi/g
SED	SED60092	29-Oct-92	752021.870	2086548.620	0	1.5	Antimony	29.6	-	13.01	409	mg/kg
SED	SED60092	29-Oct-92	752021.870	2086548.620	0	1.5	Aroclor-1254	590	350	-	12400	ug/kg
SED	SED60092	29-Oct-92	752021.870	2086548.620	0	1.5	Barium	193	-	188.17	26400	mg/kg
SED	SED60092	29-Oct-92	752021.870	2086548.620	0	1.5	Cadmium	3.4	-	1.88	962	mg/kg
SED	SED60092	29-Oct-92	752021.870	2086548.620	0	1.5	Copper	28.7	-	27.27	40900	mg/kg
SED	SED60092	29-Oct-92	752021.870	2086548.620	0	1.5	Fluoranthene	790	660	-	27200000	ug/kg
SED	SED60092	29-Oct-92	752021.870	2086548.620	0	1.5	Mercury	0.36	-	0.34	25200	mg/kg
SED	SED60092	29-Oct-92	752021.870	2086548.620	0	1.5	Plutonium-239/240	35.47	-	1.35	50	pCi/g
SED	SED60092	29-Oct-92	752021.870	2086548.620	0	1.5	Pyrene	710	660	-	22100000	ug/kg
SED	SED60092	29-Oct-92	752021.870	2086548.620	0	1.5	Toluene	200	5	-	31300000	ug/kg
SED	SED60092	29-Oct-92	752021.870	2086548.620	0	1.5	Zinc	110	-	104.4	307000	mg/kg
SED	SED60192	06-Jun-94	751985.810	2086278.370	0	0.5	Americium-241	0.6233	-	0.27	76	pCi/g
SED	SED60192	06-Jun-94	751985.810	2086278.370	0	0.5	Plutonium-239/240	1.8398	-	1.35	50	pCi/g
SED	SED60192	02-Nov-92	751985.810	2086278.370	0	1.17	Americium-241	7.5	-	0.27	76	pCi/g
SED	SED60192	02-Nov-92	751985.810	2086278.370	0	1.17	Nickel	26.4	-	17.89	20400	mg/kg
SED	SED60192	02-Nov-92	751985.810	2086278.370	0	1.17	Plutonium-239/240	17.67	-	1.35	50	pCi/g
SED	SED60192	02-Nov-92	751985.810	2086278.370	0	1.17	Toluene	120	5	-	31300000	ug/kg
SED	SED60292	06-Jun-94	751974.500	2086478.120	0	0.5	Plutonium-239/240	2.304	-	1.35	50	pCi/g
SED	SED60292	06-Jun-94	751974.500	2086478.120	0	0.5	Uranium-238	5.352	-	3.46	351	pCi/g
SED	SED60292	29-Oct-92	751974.500	2086478.120	0	1.42	Americium-241	13.23	-	0.27	76	pCi/g
SED	SED60292	29-Oct-92	751974.500	2086478.120	0	1.42	Antimony	30.4	-	13.01	409	mg/kg
SED	SED60292	29-Oct-92	751974.500	2086478.120	0	1.42	Aroclor-1254	460	350	-	12400	ug/kg
SED	SED60292	29-Oct-92	751974.500	2086478.120	0	1.42	Barium	190	-	188.17	26400	mg/kg
SED	SED60292	29-Oct-92	751974.500	2086478.120	0	1.42	Cobalt	13	-	12.3	1550	mg/kg
SED	SED60292	29-Oct-92	751974.500	2086478.120	0	1.42	Copper	27.6	-	27.27	40900	mg/kg
SED	SED60292	29-Oct-92	751974.500	2086478.120	0	1.42	Mercury	0.47	-	0.34	25200	mg/kg
SED	SED60292	29-Oct-92	751974.500	2086478.120	0	1.42	Plutonium-239/240	36.2	-	1.35	50	pCi/g
SED	SED60292	29-Oct-92	751974.500	2086478.120	0	1.42	Toluene	97	5	-	31300000	ug/kg
SED	SED60292	29-Oct-92	751974.500	2086478.120	0	1.42	Zinc	107	-	104.4	307000	mg/kg

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
SED	SED60392	06-Jun-94	752038.370	2086502.500	0	0.5	Americium-241	0.9365	-	0.27	76	pCi/g
SED	SED60392	06-Jun-94	752038.370	2086502.500	0	0.5	Plutonium-239/240	2.429	-	1.35	50	pCi/g
SED	SED60392	06-Jun-94	752038.370	2086502.500	0	0.5	Uranium-238	3.535	-	3.46	351	pCi/g
SED	SED60392	29-Oct-92	752038.370	2086502.500	0	1.25	Americium-241	11.48	-	0.27	76	pCi/g
SED	SED60392	29-Oct-92	752038.370	2086502.500	0	1.25	Aroclor-1254	350	350	-	12400	ug/kg
SED	SED60392	29-Oct-92	752038.370	2086502.500	0	1.25	Mercury	0.35	-	0.34	25200	mg/kg
SED	SED60392	29-Oct-92	752038.370	2086502.500	0	1.25	Plutonium-239/240	25.67	-	1.35	50	pCi/g
SED	SED60392	29-Oct-92	752038.370	2086502.500	0	1.25	Toluene	280	5	-	31300000	ug/kg
Pond A-2												
SED	CV54-000	19-Jul-05	752132.906	2087012.030	0	0.5	Acenaphthene	180	18	-	40800000	ug/kg
SED	CV54-000	19-Jul-05	752132.906	2087012.030	0	0.5	Americium-241	1.12	-	0.27	76	pCi/g
SED	CV54-000	19-Jul-05	752132.906	2087012.030	0	0.5	Anthracene	210	18	-	204000000	ug/kg
SED	CV54-000	19-Jul-05	752132.906	2087012.030	0	0.5	Benzo(a)anthracene	52	21	-	34900	ug/kg
SED	CV54-000	19-Jul-05	752132.906	2087012.030	0	0.5	Benzo(a)pyrene	51	21	-	3490	ug/kg
SED	CV54-000	19-Jul-05	752132.906	2087012.030	0	0.5	Benzo(b)fluoranthene	64	56	-	34900	ug/kg
SED	CV54-000	19-Jul-05	752132.906	2087012.030	0	0.5	Chrysene	60	28	-	3490000	ug/kg
SED	CV54-000	19-Jul-05	752132.906	2087012.030	0	0.5	Fluoranthene	89	38	-	27200000	ug/kg
SED	CV54-000	19-Jul-05	752132.906	2087012.030	0	0.5	Indeno(1,2,3-cd)pyrene	210	23	-	34900	ug/kg
SED	CV54-000	19-Jul-05	752132.906	2087012.030	0	0.5	Plutonium-239/240	2.2	-	1.35	50	pCi/g
SED	CW53-000	18-Jul-05	752155.424	2087165.037	0	0.5	Aluminum	26000	-	15713.07	228000	mg/kg
SED	CW53-000	18-Jul-05	752155.424	2087165.037	0	0.5	Americium-241	1.33	-	0.27	76	pCi/g
SED	CW53-000	18-Jul-05	752155.424	2087165.037	0	0.5	Arsenic	10	-	7.24	22.2	mg/kg
SED	CW53-000	18-Jul-05	752155.424	2087165.037	0	0.5	Barium	250	-	188.17	26400	mg/kg
SED	CW53-000	18-Jul-05	752155.424	2087165.037	0	0.5	bis(2-Ethylhexyl)phthalate	270	78	-	1970000	ug/kg
SED	CW53-000	18-Jul-05	752155.424	2087165.037	0	0.5	Chromium	26	-	23.23	268	mg/kg
SED	CW53-000	18-Jul-05	752155.424	2087165.037	0	0.5	Copper	30	-	27.27	40900	mg/kg
SED	CW53-000	18-Jul-05	752155.424	2087165.037	0	0.5	Iron	24000	-	21379.01	307000	mg/kg
SED	CW53-000	18-Jul-05	752155.424	2087165.037	0	0.5	Nickel	21	-	17.89	20400	mg/kg
SED	CW53-000	18-Jul-05	752155.424	2087165.037	0	0.5	Plutonium-239/240	4.51	-	1.35	50	pCi/g
SED	CW53-000	18-Jul-05	752155.424	2087165.037	0	0.5	Uranium-238	4.24	-	3.46	351	pCi/g
SED	CW53-000	18-Jul-05	752155.424	2087165.037	0	0.5	Vanadium	58	-	46.83	7150	mg/kg
SED	CW53-000	18-Jul-05	752155.424	2087165.037	0	0.5	Zinc	110	-	104.4	307000	mg/kg

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
SED	CW53-000	18-Jul-05	752155.424	2087165.037	0.5	1.8	Aluminum	25000	-	15713.07	228000	mg/kg
SED	CW53-000	18-Jul-05	752155.424	2087165.037	0.5	1.8	Americium-241	3.47	-	0.27	76	pCi/g
SED	CW53-000	18-Jul-05	752155.424	2087165.037	0.5	1.8	Arsenic	8.5	-	7.24	22.2	mg/kg
SED	CW53-000	18-Jul-05	752155.424	2087165.037	0.5	1.8	Barium	260	-	188.17	26400	mg/kg
SED	CW53-000	18-Jul-05	752155.424	2087165.037	0.5	1.8	Benzo(a)pyrene	80	48	-	3490	ug/kg
SED	CW53-000	18-Jul-05	752155.424	2087165.037	0.5	1.8	bis(2-Ethylhexyl)phthalate	47000	300	-	1970000	ug/kg
SED	CW53-000	18-Jul-05	752155.424	2087165.037	0.5	1.8	Chromium	38	-	23.23	268	mg/kg
SED	CW53-000	18-Jul-05	752155.424	2087165.037	0.5	1.8	Chrysene	81	65	-	3490000	ug/kg
SED	CW53-000	18-Jul-05	752155.424	2087165.037	0.5	1.8	Copper	32	-	27.27	40900	mg/kg
SED	CW53-000	18-Jul-05	752155.424	2087165.037	0.5	1.8	Fluoranthene	140	87	-	27200000	ug/kg
SED	CW53-000	18-Jul-05	752155.424	2087165.037	0.5	1.8	Iron	26000	-	21379.01	307000	mg/kg
SED	CW53-000	18-Jul-05	752155.424	2087165.037	0.5	1.8	Manganese	750	-	659.22	3480	mg/kg
SED	CW53-000	18-Jul-05	752155.424	2087165.037	0.5	1.8	Nickel	23	-	17.89	20400	mg/kg
SED	CW53-000	18-Jul-05	752155.424	2087165.037	0.5	1.8	Plutonium-239/240	10.5	-	1.35	50	pCi/g
SED	CW53-000	18-Jul-05	752155.424	2087165.037	0.5	1.8	Silver	3.9	-	2.28	5110	mg/kg
SED	CW53-000	18-Jul-05	752155.424	2087165.037	0.5	1.8	Vanadium	55	-	46.83	7150	mg/kg
SED	CW53-000	18-Jul-05	752155.424	2087165.037	0.5	1.8	Zinc	130	-	104.4	307000	mg/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0	0.5	1,2,3,4,6,7,8-HpCDF	2.51	2.86	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0	0.5	1,2,3,6,7,8-HxCDD	1.22	2.86	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0	0.5	1,2,3,7,8,9-HxCDD	1.06	2.86	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0	0.5	1,2,3,7,8-PeCDF	2.86	2.86	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0	0.5	1,2,3,7,8-PeCDD	2.86	2.86	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0	0.5	1234678-HpCDD	19.9	2.86	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0	0.5	1234789-HpCDF	2.86	2.86	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0	0.5	123478-HxCDD	2.86	2.86	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0	0.5	123478-HxCDF	0.566	2.86	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0	0.5	123678-HxCDF	2.86	2.86	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0	0.5	123789-HxCDF	2.86	2.86	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0	0.5	2,3,4,6,7,8-HxCDF	2.86	2.86	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0	0.5	2,3,7,8-TCDF	1.14	1.14	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0	0.5	23478-PeCDF	2.86	2.86	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0	0.5	2-Butanone	34	20	-	192000000	ug/kg

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0	0.5	Acetone	230	20	-	102000000	ug/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0	0.5	Americium-241	1.06	-	0.27	76	pCi/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0	0.5	bis(2-Ethylhexyl)phthalate	1000	300	-	1970000	ug/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0	0.5	Dioxin	1.14	1.14	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0	0.5	Methylene chloride	9.3	3.5	-	2530000	ug/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0	0.5	O8CDD	161	5.71	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0	0.5	OCDF	8.83	5.71	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0	0.5	Plutonium-239/240	2.99	-	1.35	50	pCi/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0	0.5	Uranium-238	6.1	-	3.46	351	pCi/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	1,2,3,4,6,7,8-HpCDF	4.19	4.19	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	1,2,3,6,7,8-HxCDD	4.19	4.19	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	1,2,3,7,8,9-HxCDD	4.19	4.19	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	1,2,3,7,8-PeCDF	4.19	4.19	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	1,2,3,7,8-PeCDD	4.19	4.19	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	1234678-HpCDD	4.19	4.19	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	1234789-HpCDF	0.74	4.19	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	123478-HxCDD	4.19	4.19	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	123478-HxCDF	4.19	4.19	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	123678-HxCDF	4.19	4.19	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	123789-HxCDF	0.553	4.19	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	2,3,4,6,7,8-HxCDF	4.19	4.19	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	2,3,7,8-TCDF	1.68	1.68	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	23478-PeCDF	4.19	4.19	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	2-Butanone	71	14	-	192000000	ug/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	Acetone	400	14	-	102000000	ug/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	Aluminum	28000	-	15713.07	228000	mg/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	Americium-241	1.44	-	0.27	76	pCi/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	Aroclor-1254	34	20	-	12400	ug/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	Arsenic	12	-	7.24	22.2	mg/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	Barium	300	-	188.17	26400	mg/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	bis(2-Ethylhexyl)phthalate	420	210	-	1970000	ug/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	Cadmium	3.2	-	1.88	962	mg/kg

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	Chromium	29	-	23.23	268	mg/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	Copper	56	-	27.27	40900	mg/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	Dioxin	1.68	1.68	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	Iron	27000	-	21379.01	307000	mg/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	Methylene chloride	5.6	2.4	-	2530000	ug/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	Nickel	25	-	17.89	20400	mg/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	O8CDD	17.8	8.38	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	OCDF	8.38	8.38	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	Plutonium-239/240	4.25	-	1.35	50	pCi/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	Vanadium	57	-	46.83	7150	mg/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	0.5	2.5	Zinc	160	-	104.4	307000	mg/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	1,2,3,4,6,7,8-HpCDF	2.83	4.74	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	1,2,3,6,7,8-HxCDD	4.74	4.74	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	1,2,3,7,8,9-HxCDD	4.74	4.74	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	1,2,3,7,8-PeCDF	4.74	4.74	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	1,2,3,7,8-PeCDD	4.74	4.74	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	1234678-HpCDD	19.8	4.74	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	1234789-HpCDF	0.77	4.74	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	123478-HxCDD	4.74	4.74	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	123478-HxCDF	0.55	4.74	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	123678-HxCDF	4.74	4.74	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	123789-HxCDF	4.74	4.74	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	2,3,4,6,7,8-HxCDF	4.74	4.74	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	2,3,7,8-TCDF	1.9	1.9	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	23478-PeCDF	4.74	4.74	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	Acetone	77	21	-	102000000	ug/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	Aluminum	49000	-	15713.07	228000	mg/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	Americium-241	1.32	-	0.27	76	pCi/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	Aroclor-1254	36	30	-	12400	ug/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	Arsenic	11	-	7.24	22.2	mg/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	Barium	390	-	188.17	26400	mg/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	Benzoic Acid	2700	1300	-	100000000	ug/kg

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	bis(2-Ethylhexyl)phthalate	490	320	-	1970000	ug/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	Chromium	44	-	23.23	268	mg/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	Cobalt	15	-	12.3	1550	mg/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	Copper	49	-	27.27	40900	mg/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	Dioxin	1.9	1.9	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	Iron	39000	-	21379.01	307000	mg/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	Lithium	37	-	29.67	20400	mg/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	Manganese	900	-	659.22	3480	mg/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	Methylene chloride	7.7	3.7	-	2530000	ug/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	Nickel	34	-	17.89	20400	mg/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	O8CDD	114	9.48	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	OCDF	5.83	9.48	-	-	pg/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	Plutonium-239/240	3.59	-	1.35	50	pCi/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	Strontium	220	-	201.44	613000	mg/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	Uranium-238	4.53	-	3.46	351	pCi/g
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	Vanadium	96	-	46.83	7150	mg/kg
SED	CW54-000	22-Dec-04	752172.691	2087344.578	2.5	4.5	Zinc	170	-	104.4	307000	mg/kg
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	4.5	6.5	1,2,3,4,6,7,8-HpCDF	1.66	1.66	-	-	pg/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	4.5	6.5	1,2,3,6,7,8-HxCDD	1.66	1.66	-	-	pg/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	4.5	6.5	1,2,3,7,8,9-HxCDD	1.66	1.66	-	-	pg/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	4.5	6.5	1,2,3,7,8-PeCDF	1.66	1.66	-	-	pg/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	4.5	6.5	1,2,3,7,8-PeCDD	1.66	1.66	-	-	pg/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	4.5	6.5	1234678-HpCDD	1.56	1.66	-	-	pg/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	4.5	6.5	1234789-HpCDF	0.34	1.66	-	-	pg/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	4.5	6.5	123478-HxCDD	1.66	1.66	-	-	pg/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	4.5	6.5	123478-HxCDF	1.66	1.66	-	-	pg/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	4.5	6.5	123678-HxCDF	1.66	1.66	-	-	pg/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	4.5	6.5	123789-HxCDF	1.66	1.66	-	-	pg/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	4.5	6.5	2,3,4,6,7,8-HxCDF	1.66	1.66	-	-	pg/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	4.5	6.5	2,3,7,8-TCDF	0.666	0.666	-	-	pg/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	4.5	6.5	23478-PeCDF	1.66	1.66	-	-	pg/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	4.5	6.5	2-Butanone	12	6.4	-	192000000	ug/kg

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	4.5	6.5	Acetone	52	6.3	-	102000000	ug/kg
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	4.5	6.5	Americium-241	1.4	-	0.02	76	pCi/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	4.5	6.5	bis(2-Ethylhexyl)phthalate	250	96	-	1970000	ug/kg
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	4.5	6.5	Dioxin	0.666	0.666	-	-	pg/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	4.5	6.5	Methylene chloride	2.6	1.1	-	2530000	ug/kg
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	4.5	6.5	O8CDD	8.35	3.33	-	-	pg/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	4.5	6.5	OCDF	3.33	3.33	-	-	pg/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	4.5	6.5	Plutonium-239/240	2.61	-	0.02	50	pCi/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	4.5	6.5	Uranium-238	2.07	-	1.49	351	pCi/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	6.5	8.5	1,2,3,4,6,7,8-HpCDF	0.139	1.38	-	-	pg/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	6.5	8.5	1,2,3,6,7,8-HxCDD	1.38	1.38	-	-	pg/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	6.5	8.5	1,2,3,7,8,9-HxCDD	1.38	1.38	-	-	pg/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	6.5	8.5	1,2,3,7,8-PeCDF	1.38	1.38	-	-	pg/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	6.5	8.5	1,2,3,7,8-PeCDD	1.38	1.38	-	-	pg/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	6.5	8.5	1234678-HpCDD	1.38	1.38	-	-	pg/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	6.5	8.5	1234789-HpCDF	1.38	1.38	-	-	pg/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	6.5	8.5	123478-HxCDD	1.38	1.38	-	-	pg/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	6.5	8.5	123478-HxCDF	1.38	1.38	-	-	pg/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	6.5	8.5	123678-HxCDF	1.38	1.38	-	-	pg/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	6.5	8.5	123789-HxCDF	1.38	1.38	-	-	pg/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	6.5	8.5	2,3,4,6,7,8-HxCDF	1.38	1.38	-	-	pg/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	6.5	8.5	2,3,7,8-TCDF	0.55	0.55	-	-	pg/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	6.5	8.5	23478-PeCDF	1.38	1.38	-	-	pg/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	6.5	8.5	Acetone	34	5.2	-	102000000	ug/kg
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	6.5	8.5	Dioxin	0.55	0.55	-	-	pg/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	6.5	8.5	Methylene chloride	2.7	0.9	-	2530000	ug/kg
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	6.5	8.5	O8CDD	2.75	2.75	-	-	pg/g
Soil	CW54-000	22-Dec-04	752172.691	2087344.578	6.5	8.5	OCDF	2.75	2.75	-	-	pg/g
SED	CW54-002	18-Jul-05	752161.044	2087330.500	0	0.5	Aluminum	22000	-	15713.07	228000	mg/kg
SED	CW54-002	18-Jul-05	752161.044	2087330.500	0	0.5	Americium-241	1.37	-	0.27	76	pCi/g
SED	CW54-002	18-Jul-05	752161.044	2087330.500	0	0.5	Arsenic	11	-	7.24	22.2	mg/kg
SED	CW54-002	18-Jul-05	752161.044	2087330.500	0	0.5	Barium	260	-	188.17	26400	mg/kg

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
SED	CW54-002	18-Jul-05	752161.044	2087330.500	0	0.5	bis(2-Ethylhexyl)phthalate	470	170	-	1970000	ug/kg
SED	CW54-002	18-Jul-05	752161.044	2087330.500	0	0.5	Chromium	24	-	23.23	268	mg/kg
SED	CW54-002	18-Jul-05	752161.044	2087330.500	0	0.5	Copper	28	-	27.27	40900	mg/kg
SED	CW54-002	18-Jul-05	752161.044	2087330.500	0	0.5	Iron	28000	-	21379.01	307000	mg/kg
SED	CW54-002	18-Jul-05	752161.044	2087330.500	0	0.5	Manganese	1100	-	659.22	3480	mg/kg
SED	CW54-002	18-Jul-05	752161.044	2087330.500	0	0.5	Nickel	22	-	17.89	20400	mg/kg
SED	CW54-002	18-Jul-05	752161.044	2087330.500	0	0.5	Plutonium-239/240	4.07	-	1.35	50	pCi/g
SED	CW54-002	18-Jul-05	752161.044	2087330.500	0	0.5	Strontium	220	-	201.44	613000	mg/kg
SED	CW54-002	18-Jul-05	752161.044	2087330.500	0	0.5	Uranium-235	0.285	-	0.15	8	pCi/g
SED	CW54-002	18-Jul-05	752161.044	2087330.500	0	0.5	Uranium-238	3.68	-	3.46	351	pCi/g
SED	CW54-002	18-Jul-05	752161.044	2087330.500	0	0.5	Vanadium	55	-	46.83	7150	mg/kg
SED	CW54-002	18-Jul-05	752161.044	2087330.500	0	0.5	Zinc	110	-	104.4	307000	mg/kg
SED	SED60692	01-Jun-94	752108.560	2087257.000	0	0.5	Americium-241	1.987	-	0.27	76	pCi/g
SED	SED60692	01-Jun-94	752108.560	2087257.000	0	0.5	Plutonium-239/240	7.4262	-	1.35	50	pCi/g
SED	SED60692	01-Jun-94	752108.560	2087257.000	0	0.5	Uranium-235	0.1963	-	0.15	8	pCi/g
SED	SED60692	01-Jun-94	752108.560	2087257.000	0	0.5	Uranium-238	5.151	-	3.46	351	pCi/g
SED	SED60692	12-Nov-92	752108.560	2087257.000	0	0.83	Toluene	650	5	-	31300000	ug/kg
SED	SED60792	01-Jun-94	752173.870	2087291.120	0	0.5	Americium-241	1.514	-	0.27	76	pCi/g
SED	SED60792	01-Jun-94	752173.870	2087291.120	0	0.5	Plutonium-239/240	4.7466	-	1.35	50	pCi/g
SED	SED60792	01-Jun-94	752173.870	2087291.120	0	0.5	Uranium-235	0.1608	-	0.15	8	pCi/g
SED	SED60792	01-Jun-94	752173.870	2087291.120	0	0.5	Uranium-238	5.792	-	3.46	351	pCi/g
SED	SED60792	12-Nov-92	752173.870	2087291.120	0	1	Americium-241	1.74	-	0.27	76	pCi/g
SED	SED60792	12-Nov-92	752173.870	2087291.120	0	1	bis(2-Ethylhexyl)phthalate	4200	660	-	1970000	ug/kg
SED	SED60792	12-Nov-92	752173.870	2087291.120	0	1	Plutonium-239/240	5.65	-	1.35	50	pCi/g
SED	SED60792	12-Nov-92	752173.870	2087291.120	0	1	Toluene	860	5	-	31300000	ug/kg
SED	SED60892	01-Jun-94	752175.370	2087329.120	0	0.5	Americium-241	1.073	-	0.27	76	pCi/g
SED	SED60892	01-Jun-94	752175.370	2087329.120	0	0.5	Plutonium-239/240	3.0805	-	1.35	50	pCi/g
SED	SED60892	01-Jun-94	752175.370	2087329.120	0	0.5	Uranium-238	5.9482	-	3.46	351	pCi/g
SED	SED60892	12-Nov-92	752175.370	2087329.120	0	1.33	Acetone	260	100	-	102000000	ug/kg
SED	SED60892	12-Nov-92	752175.370	2087329.120	0	1.33	bis(2-Ethylhexyl)phthalate	7800	660	-	1970000	ug/kg
SED	SED60892	12-Nov-92	752175.370	2087329.120	0	1.33	Nickel	28.3	-	17.89	20400	mg/kg
SED	SED60892	12-Nov-92	752175.370	2087329.120	0	1.33	Plutonium-239/240	2.58	-	1.35	50	pCi/g

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
Pond A-3												
SED	DA54-000	29-Jul-05	752283.517	2087983.836	0	0.8	Americium-241	0.365	-	0.27	76	pCi/g
SED	DA54-000	29-Jul-05	752283.517	2087983.836	0	0.8	Aluminum	23000	-	15713.07	228000	mg/kg
SED	DA54-000	29-Jul-05	752283.517	2087983.836	0	0.8	Iron	22000	-	21379.01	307000	mg/kg
SED	DA54-000	29-Jul-05	752283.517	2087983.836	0	0.8	Nickel	21	-	17.89	20400	mg/kg
SED	DA54-000	29-Jul-05	752283.517	2087983.836	0	0.8	Arsenic	7.6	-	7.24	22.2	mg/kg
SED	DA54-000	29-Jul-05	752283.517	2087983.836	0	0.8	Vanadium	49	-	46.83	7150	mg/kg
SED	DA54-000	29-Jul-05	752283.517	2087983.836	0	0.8	Zinc	170	-	104.4	307000	mg/kg
SED	DA55-001	29-Jul-05	752331.359	2088104.614	0	0.9	Zinc	120	-	104.4	307000	mg/kg
SED	DA55-001	29-Jul-05	752331.359	2088104.614	0	0.9	Nickel	19	-	17.89	20400	mg/kg
SED	DA55-001	29-Jul-05	752331.359	2088104.614	0	0.9	Aluminum	19000	-	15713.07	228000	mg/kg
SED	DA55-001	29-Jul-05	752331.359	2088104.614	0	0.9	Americium-241	0.477	-	0.27	76	pCi/g
SED	DB55-000	28-Jul-05	752563.216	2088328.103	0	0.5	Aluminum	25000	-	15713.07	228000	mg/kg
SED	DB55-000	28-Jul-05	752563.216	2088328.103	0	0.5	Nickel	20	-	17.89	20400	mg/kg
SED	DB55-000	28-Jul-05	752563.216	2088328.103	0	0.5	Arsenic	7.5	-	7.24	22.2	mg/kg
SED	DB55-000	28-Jul-05	752563.216	2088328.103	0	0.5	Barium	200	-	188.17	26400	mg/kg
SED	DB55-000	28-Jul-05	752563.216	2088328.103	0	0.5	Chromium	25	-	23.23	268	mg/kg
SED	DB55-000	28-Jul-05	752563.216	2088328.103	0	0.5	Vanadium	53	-	46.83	7150	mg/kg
SED	DB55-000	28-Jul-05	752563.216	2088328.103	0	0.5	Zinc	540	-	104.4	307000	mg/kg
SED	DC55-000	29-Jul-05	752403.172	2088400.517	0	0.9	Selenium	1.8	-	1.55	5110	mg/kg
SED	DC55-000	29-Jul-05	752403.172	2088400.517	0	0.9	Zinc	150	-	104.4	307000	mg/kg
SED	DC55-000	29-Jul-05	752403.172	2088400.517	0	0.9	Nickel	18	-	17.89	20400	mg/kg
SED	DC55-000	29-Jul-05	752403.172	2088400.517	0	0.9	Aluminum	20000	-	15713.07	228000	mg/kg
SED	SED61092	21-Oct-92	752377.930	2088256.750	0	2	Plutonium-239/240	2.053	-	1.35	50	pCi/g
SED	SED61092	21-Oct-92	752377.930	2088256.750	0	2	Toluene	6	5	-	31300000	ug/kg
SED	SED61092	21-Oct-92	752377.930	2088256.750	0	2	Americium-241	0.6663	-	0.27	76	pCi/g
SED	SED61092	21-Oct-92	752377.930	2088256.750	0	2	Aluminum	27400	-	15713.07	228000	mg/kg
SED	SED61092	21-Oct-92	752377.930	2088256.750	0	2	Iron	25000	-	21379.01	307000	mg/kg
SED	SED61092	21-Oct-92	752377.930	2088256.750	0	2	Nickel	25.6	-	17.89	20400	mg/kg
SED	SED61092	21-Oct-92	752377.930	2088256.750	0	2	Arsenic	7.5	-	7.24	22.2	mg/kg
SED	SED61092	21-Oct-92	752377.930	2088256.750	0	2	Barium	192	-	188.17	26400	mg/kg
SED	SED61092	21-Oct-92	752377.930	2088256.750	0	2	Chromium	29.9	-	23.23	268	mg/kg

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
SED	SED61092	21-Oct-92	752377.930	2088256.750	0	2	Vanadium	62.7	-	46.83	7150	mg/kg
SED	SED61092	21-Oct-92	752377.930	2088256.750	0	2	Zinc	122	-	104.4	307000	mg/kg
SED	SED61192	21-Oct-92	752367.120	2088213.000	0	1.33	Zinc	155	-	104.4	307000	mg/kg
SED	SED61192	21-Oct-92	752367.120	2088213.000	0	1.33	Vanadium	60.1	-	46.83	7150	mg/kg
SED	SED61192	21-Oct-92	752367.120	2088213.000	0	1.33	Chromium	25.9	-	23.23	268	mg/kg
SED	SED61192	21-Oct-92	752367.120	2088213.000	0	1.33	Nickel	19.7	-	17.89	20400	mg/kg
SED	SED61192	21-Oct-92	752367.120	2088213.000	0	1.33	Iron	24400	-	21379.01	307000	mg/kg
SED	SED61192	21-Oct-92	752367.120	2088213.000	0	1.33	Aluminum	25800	-	15713.07	228000	mg/kg
SED	SED61192	21-Oct-92	752367.120	2088213.000	0	1.33	Americium-241	0.3328	-	0.27	76	pCi/g
SED	SED61192	21-Oct-92	752367.120	2088213.000	0	1.33	Toluene	45	5	-	31300000	ug/kg
SED	SED61292	22-Oct-92	752289.250	2088051.750	0	1	Toluene	17	5	-	31300000	ug/kg
SED	SED61292	22-Oct-92	752289.250	2088051.750	0	1	Americium-241	0.4222	-	0.27	76	pCi/g
SED	SED61292	22-Oct-92	752289.250	2088051.750	0	1	Antimony	26	-	13.01	409	mg/kg
SED	SED61292	22-Oct-92	752289.250	2088051.750	0	1	Cobalt	13.9	-	12.3	1550	mg/kg
SED	SED61292	22-Oct-92	752289.250	2088051.750	0	1	Zinc	132	-	104.4	307000	mg/kg
SED	SED61392	21-Oct-92	752518.750	2088293.870	0	1.33	Zinc	146	-	104.4	307000	mg/kg
SED	SED61392	21-Oct-92	752518.750	2088293.870	0	1.33	Vanadium	47.6	-	46.83	7150	mg/kg
SED	SED61392	21-Oct-92	752518.750	2088293.870	0	1.33	Cobalt	15.5	-	12.3	1550	mg/kg
SED	SED61392	21-Oct-92	752518.750	2088293.870	0	1.33	Arsenic	7.8	-	7.24	22.2	mg/kg
SED	SED61392	21-Oct-92	752518.750	2088293.870	0	1.33	Aluminum	19900	-	15713.07	228000	mg/kg
SED	SED61392	21-Oct-92	752518.750	2088293.870	0	1.33	Iron	22600	-	21379.01	307000	mg/kg
SED	SED61392	21-Oct-92	752518.750	2088293.870	0	1.33	Toluene	62	5	-	31300000	ug/kg
Pond A-4												
SED	DF57-000	21-Jul-05	752948.912	2089306.276	0	2	Arsenic	7.3	-	7.24	22.2	mg/kg
SED	DF57-000	21-Jul-05	752948.912	2089306.276	0	2	Barium	200	-	188.17	26400	mg/kg
SED	DF57-000	21-Jul-05	752948.912	2089306.276	0	2	Iron	55000	-	21379.01	307000	mg/kg
SED	DG57-000	21-Jul-05	752985.248	2089521.445	0	0.5	Aluminum	26000	-	15713.07	228000	mg/kg
SED	DG57-000	21-Jul-05	752985.248	2089521.445	0	0.5	Barium	200	-	188.17	26400	mg/kg
SED	DG57-000	21-Jul-05	752985.248	2089521.445	0	0.5	Chromium	27	-	23.23	268	mg/kg
SED	DG57-000	21-Jul-05	752985.248	2089521.445	0	0.5	Iron	22000	-	21379.01	307000	mg/kg
SED	DG57-000	21-Jul-05	752985.248	2089521.445	0	0.5	Nickel	20	-	17.89	20400	mg/kg
SED	DG57-000	21-Jul-05	752985.248	2089521.445	0	0.5	Vanadium	59	-	46.83	7150	mg/kg

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
SED	DG57-000	21-Jul-05	752985.248	2089521.445	0.5	1.3	Aluminum	23000	-	15713.07	228000	mg/kg
SED	DG57-000	21-Jul-05	752985.248	2089521.445	0.5	1.3	Barium	190	-	188.17	26400	mg/kg
SED	DG57-000	21-Jul-05	752985.248	2089521.445	0.5	1.3	Chromium	25	-	23.23	268	mg/kg
SED	DG57-000	21-Jul-05	752985.248	2089521.445	0.5	1.3	Nickel	18	-	17.89	20400	mg/kg
SED	DG57-000	21-Jul-05	752985.248	2089521.445	0.5	1.3	Vanadium	53	-	46.83	7150	mg/kg
SED	DG58-000	21-Jul-05	752859.330	2089342.488	0	0.5	Aluminum	17000	-	15713.07	228000	mg/kg
SED	DI57-000	21-Jul-05	752874.281	2089750.202	0	0.5	Aluminum	16000	-	15713.07	228000	mg/kg
SED	DI57-000	21-Jul-05	752874.281	2089750.202	0	0.5	Selenium	1.6	-	1.55	5110	mg/kg
SED	DI58-000	21-Jul-05	753150.536	2089579.320	0	0.5	Aluminum	19000	-	15713.07	228000	mg/kg
SED	DI58-000	21-Jul-05	753150.536	2089579.320	0	0.5	Barium	200	-	188.17	26400	mg/kg
SED	DI58-000	21-Jul-05	753150.536	2089579.320	0	0.5	Selenium	1.7	-	1.55	5110	mg/kg
SED	DI58-000	21-Jul-05	753150.536	2089579.320	0	0.5	Zinc	110	-	104.4	307000	mg/kg
SED	SED61592	14-Oct-92	752864.120	2089474.370	0	0.67	Antimony	27.5	-	13.01	409	mg/kg
SED	SED61592	14-Oct-92	752864.120	2089474.370	0	0.67	Cobalt	13.1	-	12.3	1550	mg/kg
SED	SED61592	14-Oct-92	752864.120	2089474.370	0	0.67	Nickel	23.2	-	17.89	20400	mg/kg
SED	SED61692	15-Oct-92	752957.620	2089755.750	0	0.33	Aluminum	17900	-	15713.07	228000	mg/kg
SED	SED61692	15-Oct-92	752957.620	2089755.750	0	0.33	Antimony	41.4	-	13.01	409	mg/kg
SED	SED61692	15-Oct-92	752957.620	2089755.750	0	0.33	Arsenic	8.8	-	7.24	22.2	mg/kg
SED	SED61692	15-Oct-92	752957.620	2089755.750	0	0.33	Nickel	25.5	-	17.89	20400	mg/kg
SED	SED61692	15-Oct-92	752957.620	2089755.750	0	0.33	Toluene	5	5	-	31300000	ug/kg
SED	SED61692	15-Oct-92	752957.620	2089755.750	0	0.33	Zinc	115	-	104.4	307000	mg/kg
SED	SED61792	15-Oct-92	752938.430	2089465.500	0	0.67	Antimony	27.1	-	13.01	409	mg/kg
SED	SED61792	15-Oct-92	752938.430	2089465.500	0	0.67	Nickel	21	-	17.89	20400	mg/kg
SED	SED61892	19-Oct-92	753000.430	2089699.500	0	0.42	Aluminum	22900	-	15713.07	228000	mg/kg
SED	SED61892	19-Oct-92	753000.430	2089699.500	0	0.42	Arsenic	10.2	-	7.24	22.2	mg/kg
SED	SED61892	19-Oct-92	753000.430	2089699.500	0	0.42	Barium	206	-	188.17	26400	mg/kg
SED	SED61892	19-Oct-92	753000.430	2089699.500	0	0.42	bis(2-Ethylhexyl)phthalate	950	660	-	1970000	ug/kg
SED	SED61892	19-Oct-92	753000.430	2089699.500	0	0.42	Cadmium	3.1	-	1.88	962	mg/kg
SED	SED61892	19-Oct-92	753000.430	2089699.500	0	0.42	Chromium	23.8	-	23.23	268	mg/kg
SED	SED61892	19-Oct-92	753000.430	2089699.500	0	0.42	Cobalt	13.9	-	12.3	1550	mg/kg
SED	SED61892	19-Oct-92	753000.430	2089699.500	0	0.42	Copper	33.4	-	27.27	40900	mg/kg
SED	SED61892	19-Oct-92	753000.430	2089699.500	0	0.42	Iron	22900	-	21379.01	307000	mg/kg

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
SED	SED61892	19-Oct-92	753000.430	2089699.500	0	0.42	Selenium	1.9	-	1.55	5110	mg/kg
SED	SED61892	19-Oct-92	753000.430	2089699.500	0	0.42	Toluene	8	5	-	31300000	ug/kg
SED	SED61892	19-Oct-92	753000.430	2089699.500	0	0.42	Vanadium	57.7	-	46.83	7150	mg/kg
SED	SED61892	19-Oct-92	753000.430	2089699.500	0	0.42	Zinc	169	-	104.4	307000	mg/kg
Pond A-5												
Soil	A50102	14-Jan-02	753646.978	2093596.835	0.08	0.17	Iron	20800	-	18037.000	307000	mg/kg
Soil	A50102	14-Jan-02	753646.978	2093596.835	0.08	0.17	Nickel	17.2	-	14.910	20400	mg/kg
Soil	A50102	14-Jan-02	753646.978	2093596.835	0.08	0.17	Plutonium-239/240	0.285	-	0.066	50	pCi/g
Soil	A50102	09-Jan-02	753646.978	2093596.835	2	6	Americium-241	0.0757	-	0.020	76	pCi/g
Soil	A50102	09-Jan-02	753646.978	2093596.835	2	6	Plutonium-239/240	0.0654	-	0.020	50	pCi/g
Soil	A50202	14-Jan-02	753661.228	2093604.270	0.08	0.17	Americium-241	0.122	-	0.023	76	pCi/g
Soil	A50202	14-Jan-02	753661.228	2093604.270	0.08	0.17	Cadmium	1.63	-	1.612	962	mg/kg
Soil	A50202	14-Jan-02	753661.228	2093604.270	0.08	0.17	Lithium	11.9	-	11.550	20400	mg/kg
Soil	A50202	14-Jan-02	753661.228	2093604.270	0.08	0.17	Plutonium-239/240	0.239	-	0.066	50	pCi/g
Soil	A50202	09-Jan-02	753661.228	2093604.270	2	6	Americium-241	0.0319	-	0.020	76	pCi/g
Soil	A50202	09-Jan-02	753661.228	2093604.270	2	6	Plutonium-239/240	0.0401	-	0.020	50	pCi/g
Soil	A50302	09-Jan-02	753737.746	2093577.628	2	6	Uranium, Total	10.5	-	3.040	2750	mg/kg
Soil	A50402	14-Jan-02	753725.355	2093603.650	0.08	0.17	Lithium	13.1	-	11.550	20400	mg/kg
Soil	A50502	14-Jan-02	753708.006	2093622.857	0.08	0.17	Lithium	11.8	-	11.550	20400	mg/kg
Soil	A50502	14-Jan-02	753708.006	2093622.857	0.08	0.17	Nickel	18.2	-	14.910	20400	mg/kg
Soil	A50502	14-Jan-02	753708.006	2093622.857	0.08	0.17	Strontium	56	-	48.940	613000	mg/kg
Soil	A50602	14-Jan-02	753681.365	2093640.205	0.08	0.17	Nickel	15.6	-	14.910	20400	mg/kg
Soil	A50702	14-Jan-02	753654.723	2093656.934	0.08	0.17	Cadmium	1.7	-	1.612	962	mg/kg
Soil	A50702	14-Jan-02	753654.723	2093656.934	0.08	0.17	Lithium	11.6	-	11.550	20400	mg/kg
Soil	A50802	14-Jan-02	753628.701	2093666.847	0.08	0.17	Strontium	52.7	-	48.940	613000	mg/kg
SED	EC61-000	13-Jul-05	753691.407	2093528.381	0	0.5	Aluminum	21000	-	15713.070	228000	mg/kg
SED	EC61-000	13-Jul-05	753691.407	2093528.381	0	0.5	Barium	220	-	188.170	26400	mg/kg
SED	EC61-000	13-Jul-05	753691.407	2093528.381	0	0.5	Iron	22000	-	21379.010	307000	mg/kg
SED	EC61-000	13-Jul-05	753691.407	2093528.381	0	0.5	Nickel	19	-	17.890	20400	mg/kg
SED	EC61-000	13-Jul-05	753691.407	2093528.381	0	0.5	Zinc	130	-	104.400	307000	mg/kg
SED	EC61-001	13-Jul-05	753650.537	2093583.011	0	0.5	Aluminum	17000	-	15713.070	228000	mg/kg
SED	EC61-001	13-Jul-05	753650.537	2093583.011	0.5	2.5	Aluminum	17000	-	15713.070	228000	mg/kg

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
SED	SED64592	19-Nov-92	753658.180	2093536.120	0	0.5	Acetone	210	100	-	102000000	ug/kg
SED	SED64592	19-Nov-92	753658.180	2093536.120	0	0.5	Toluene	18	5	-	31300000	ug/kg
SED	SED64692	19-Nov-92	753622.870	2093562.250	0	1.92	Toluene	16	5	-	31300000	ug/kg
SED	SED64792	19-Nov-92	753756.750	2093507.370	0	0.42	Toluene	18	5	-	31300000	ug/kg
SED	SED64892	19-Nov-92	753678.500	2093564.250	0	1	Toluene	13	5	-	31300000	ug/kg
SED	SED64992	19-Nov-92	753745.930	2093451.620	0	0.67	Cobalt	13.3	-	12.300	1550	mg/kg
SED	SED64992	19-Nov-92	753745.930	2093451.620	0	0.67	Nickel	18.1	-	17.890	20400	mg/kg
Pond B-4												
SED	DB47-000	14-Jul-05	750852.199	2087964.334	0	0.5	Aluminum	29000	-	15713.07	228000	mg/kg
SED	DB47-000	14-Jul-05	750852.199	2087964.334	0	0.5	Americium-241	0.573	-	0.27	76	pCi/g
SED	DB47-000	14-Jul-05	750852.199	2087964.334	0	0.5	Arsenic	8.2	-	7.24	22.2	mg/kg
SED	DB47-000	14-Jul-05	750852.199	2087964.334	0	0.5	Barium	220	-	188.17	26400	mg/kg
SED	DB47-000	14-Jul-05	750852.199	2087964.334	0	0.5	bis(2-Ethylhexyl)phthalate	440	110	-	1970000	ug/kg
SED	DB47-000	14-Jul-05	750852.199	2087964.334	0	0.5	Chromium	29	-	23.23	268	mg/kg
SED	DB47-000	14-Jul-05	750852.199	2087964.334	0	0.5	Iron	24000	-	21379.01	307000	mg/kg
SED	DB47-000	14-Jul-05	750852.199	2087964.334	0	0.5	Nickel	23	-	17.89	20400	mg/kg
SED	DB47-000	14-Jul-05	750852.199	2087964.334	0	0.5	Vanadium	63	-	46.83	7150	mg/kg
SED	DB47-000	14-Jul-05	750852.199	2087964.334	0	0.5	Zinc	130	-	104.4	307000	mg/kg
SED	DB47-001	15-Jul-05	750897.247	2088017.927	0	0.5	Zinc	160	-	104.4	307000	mg/kg
SED	DB47-001	15-Jul-05	750897.247	2088017.927	0.5	2.5	Anthracene	60	23	-	204000000	ug/kg
SED	DB47-001	15-Jul-05	750897.247	2088017.927	0.5	2.5	Aroclor-1254	210	9	-	12400	ug/kg
SED	DB47-001	15-Jul-05	750897.247	2088017.927	0.5	2.5	Benzo(a)anthracene	330	27	-	34900	ug/kg
SED	DB47-001	15-Jul-05	750897.247	2088017.927	0.5	2.5	Benzo(a)pyrene	430	27	-	3490	ug/kg
SED	DB47-001	15-Jul-05	750897.247	2088017.927	0.5	2.5	Benzo(b)fluoranthene	810	73	-	34900	ug/kg
SED	DB47-001	15-Jul-05	750897.247	2088017.927	0.5	2.5	bis(2-Ethylhexyl)phthalate	300	42	-	1970000	ug/kg
SED	DB47-001	15-Jul-05	750897.247	2088017.927	0.5	2.5	Cadmium	2.7	-	1.88	962	mg/kg
SED	DB47-001	15-Jul-05	750897.247	2088017.927	0.5	2.5	Chrysene	470	37	-	3490000	ug/kg
SED	DB47-001	15-Jul-05	750897.247	2088017.927	0.5	2.5	Fluoranthene	880	49	-	27200000	ug/kg
SED	DB47-001	15-Jul-05	750897.247	2088017.927	0.5	2.5	Indeno(1,2,3-cd)pyrene	250	30	-	34900	ug/kg
SED	DB47-001	15-Jul-05	750897.247	2088017.927	0.5	2.5	Pyrene	870	180	-	22100000	ug/kg
SED	DB47-001	15-Jul-05	750897.247	2088017.927	0.5	2.5	Zinc	110	-	104.4	307000	mg/kg
SED	DB47-001	15-Jul-05	750897.247	2088017.927	2.5	4.5	Anthracene	420	72	-	204000000	ug/kg

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
SED	DB47-001	15-Jul-05	750897.247	2088017.927	2.5	4.5	Benzo(a)anthracene	330	85	-	34900	ug/kg
SED	DB47-001	15-Jul-05	750897.247	2088017.927	2.5	4.5	Benzo(a)pyrene	450	85	-	3490	ug/kg
SED	DB47-001	15-Jul-05	750897.247	2088017.927	2.5	4.5	Benzo(b)fluoranthene	630	230	-	34900	ug/kg
SED	DB47-001	15-Jul-05	750897.247	2088017.927	2.5	4.5	Chrysene	480	110	-	3490000	ug/kg
SED	DB47-001	15-Jul-05	750897.247	2088017.927	2.5	4.5	Fluoranthene	1000	150	-	27200000	ug/kg
SED	DB47-001	15-Jul-05	750897.247	2088017.927	2.5	4.5	Pyrene	920	550	-	22100000	ug/kg
SED	DB47-001	15-Jul-05	750897.247	2088017.927	2.5	4.5	Silver	13	-	2.28	5110	mg/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0	0.5	Aluminum	16000	-	15713.07	228000	mg/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0	0.5	Americium-241	0.46	-	0.27	76	pCi/g
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0	0.5	Anthracene	73	32	-	204000000	ug/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0	0.5	Aroclor-1254	160	12	-	12400	ug/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0	0.5	Arsenic	8.7	-	7.24	22.2	mg/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0	0.5	Barium	200	-	188.17	26400	mg/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0	0.5	Benzo(a)anthracene	240	38	-	34900	ug/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0	0.5	Benzo(a)pyrene	290	38	-	3490	ug/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0	0.5	Benzo(b)fluoranthene	270	100	-	34900	ug/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0	0.5	Benzo(k)fluoranthene	270	75	-	349000	ug/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0	0.5	bis(2-Ethylhexyl)phthalate	710	58	-	1970000	ug/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0	0.5	Chrysene	330	51	-	3490000	ug/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0	0.5	Copper	31	-	27.27	40900	mg/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0	0.5	Dibenz(a,h)anthracene	65	36	-	3490	ug/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0	0.5	Fluoranthene	580	68	-	27200000	ug/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0	0.5	Indeno(1,2,3-cd)pyrene	150	41	-	34900	ug/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0	0.5	Iron	23000	-	21379.01	307000	mg/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0	0.5	Nickel	18	-	17.89	20400	mg/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0	0.5	Pyrene	580	250	-	22100000	ug/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0	0.5	Silver	3.1	-	2.28	5110	mg/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0	0.5	Zinc	510	-	104.4	307000	mg/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0.5	2.5	Aluminum	20000	-	15713.07	228000	mg/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0.5	2.5	Americium-241	12.5	-	0.27	76	pCi/g
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0.5	2.5	Anthracene	75	28	-	204000000	ug/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0.5	2.5	Aroclor-1254	220	11	-	12400	ug/kg

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0.5	2.5	Arsenic	7.4	-	7.24	22.2	mg/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0.5	2.5	Barium	190	-	188.17	26400	mg/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0.5	2.5	Benzo(a)anthracene	360	33	-	34900	ug/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0.5	2.5	Benzo(a)pyrene	490	33	-	3490	ug/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0.5	2.5	Benzo(b)fluoranthene	560	87	-	34900	ug/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0.5	2.5	Benzo(k)fluoranthene	540	65	-	349000	ug/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0.5	2.5	bis(2-Ethylhexyl)phthalate	6500	51	-	1970000	ug/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0.5	2.5	Chromium	25	-	23.23	268	mg/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0.5	2.5	Chrysene	610	44	-	3490000	ug/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0.5	2.5	Copper	39	-	27.27	40900	mg/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0.5	2.5	Dibenz(a,h)anthracene	110	31	-	3490	ug/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0.5	2.5	Fluoranthene	1200	59	-	27200000	ug/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0.5	2.5	Indeno(1,2,3-cd)pyrene	280	36	-	34900	ug/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0.5	2.5	Nickel	18	-	17.89	20400	mg/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0.5	2.5	Plutonium-239/240	47.1	-	1.35	50	pCi/g
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0.5	2.5	Pyrene	1000	210	-	22100000	ug/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0.5	2.5	Silver	7.4	-	2.28	5110	mg/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	0.5	2.5	Zinc	240	-	104.4	307000	mg/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	2.5	4.5	Americium-241	17	-	0.27	76	pCi/g
SED	DB47-002	18-Jul-05	750894.214	2088143.452	2.5	4.5	Aroclor-1254	3100	100	-	12400	ug/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	2.5	4.5	Arsenic	8.8	-	7.24	22.2	mg/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	2.5	4.5	Benzo(a)anthracene	98	32	-	34900	ug/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	2.5	4.5	Benzo(a)pyrene	150	32	-	3490	ug/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	2.5	4.5	Benzo(b)fluoranthene	180	84	-	34900	ug/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	2.5	4.5	Benzo(k)fluoranthene	200	63	-	349000	ug/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	2.5	4.5	bis(2-Ethylhexyl)phthalate	8000	98	-	1970000	ug/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	2.5	4.5	Chrysene	210	43	-	3490000	ug/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	2.5	4.5	Fluoranthene	450	57	-	27200000	ug/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	2.5	4.5	Indeno(1,2,3-cd)pyrene	84	35	-	34900	ug/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	2.5	4.5	Plutonium-239/240	32.8	-	1.35	50	pCi/g
SED	DB47-002	18-Jul-05	750894.214	2088143.452	2.5	4.5	Pyrene	310	210	-	22100000	ug/kg

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
SED	DB47-002	18-Jul-05	750894.214	2088143.452	2.5	4.5	Silver	7.4	-	2.28	5110	mg/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	2.5	4.5	Uranium-234	5.34	-	3.98	300	pCi/g
SED	DB47-002	18-Jul-05	750894.214	2088143.452	2.5	4.5	Uranium-238	5.76	-	3.46	351	pCi/g
SED	DB47-002	18-Jul-05	750894.214	2088143.452	4.5	6.5	Aluminum	18000	-	15713.07	228000	mg/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	4.5	6.5	Nickel	18	-	17.89	20400	mg/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	6.5	8.5	Aluminum	17000	-	15713.07	228000	mg/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	6.5	8.5	Barium	190	-	188.17	26400	mg/kg
SED	DB47-002	18-Jul-05	750894.214	2088143.452	6.5	8.5	Nickel	18	-	17.89	20400	mg/kg
SED	DB47-003	14-Jul-05	750967.875	2088256.475	0	0.5	Aluminum	18000	-	15713.07	228000	mg/kg
SED	DB47-003	14-Jul-05	750967.875	2088256.475	0	0.5	Americium-241	1.19	-	0.27	76	pCi/g
SED	DB47-003	14-Jul-05	750967.875	2088256.475	0	0.5	Benzo(a)anthracene	100	33	-	34900	ug/kg
SED	DB47-003	14-Jul-05	750967.875	2088256.475	0	0.5	Benzo(a)pyrene	100	33	-	3490	ug/kg
SED	DB47-003	14-Jul-05	750967.875	2088256.475	0	0.5	Benzo(b)fluoranthene	180	88	-	34900	ug/kg
SED	DB47-003	14-Jul-05	750967.875	2088256.475	0	0.5	bis(2-Ethylhexyl)phthalate	370	51	-	1970000	ug/kg
SED	DB47-003	14-Jul-05	750967.875	2088256.475	0	0.5	Chrysene	110	45	-	3490000	ug/kg
SED	DB47-003	14-Jul-05	750967.875	2088256.475	0	0.5	Fluoranthene	230	60	-	27200000	ug/kg
SED	DB47-003	14-Jul-05	750967.875	2088256.475	0	0.5	Indeno(1,2,3-cd)pyrene	74	36	-	34900	ug/kg
SED	DB47-003	14-Jul-05	750967.875	2088256.475	0	0.5	Plutonium-239/240	2.92	-	1.35	50	pCi/g
SED	DB47-003	14-Jul-05	750967.875	2088256.475	0	0.5	Zinc	220	-	104.4	307000	mg/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	0	0.5	Aluminum	21000	-	15713.07	228000	mg/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	0	0.5	Americium-241	0.76	-	0.27	76	pCi/g
SED	DB47-004	14-Jul-05	750950.860	2088251.874	0	0.5	Arsenic	7.3	-	7.24	22.2	mg/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	0	0.5	Barium	210	-	188.17	26400	mg/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	0	0.5	Benzo(a)anthracene	80	42	-	34900	ug/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	0	0.5	bis(2-Ethylhexyl)phthalate	380	66	-	1970000	ug/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	0	0.5	Chromium	27	-	23.23	268	mg/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	0	0.5	Chrysene	74	57	-	3490000	ug/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	0	0.5	Copper	32	-	27.27	40900	mg/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	0	0.5	Fluoranthene	170	76	-	27200000	ug/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	0	0.5	Nickel	19	-	17.89	20400	mg/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	0	0.5	Plutonium-239/240	2.06	-	1.35	50	pCi/g
SED	DB47-004	14-Jul-05	750950.860	2088251.874	0	0.5	Selenium	1.8	-	1.55	5110	mg/kg

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
SED	DB47-004	14-Jul-05	750950.860	2088251.874	0	0.5	Vanadium	51	-	46.83	7150	mg/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	0	0.5	Zinc	420	-	104.4	307000	mg/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	0.5	2.5	Aluminum	23000	-	15713.07	228000	mg/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	0.5	2.5	Americium-241	2.57	-	0.27	76	pCi/g
SED	DB47-004	14-Jul-05	750950.860	2088251.874	0.5	2.5	Arsenic	7.8	-	7.24	22.2	mg/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	0.5	2.5	Benzo(a)anthracene	200	33	-	34900	ug/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	0.5	2.5	Benzo(a)pyrene	270	33	-	3490	ug/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	0.5	2.5	Benzo(b)fluoranthene	530	87	-	34900	ug/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	0.5	2.5	bis(2-Ethylhexyl)phthalate	1600	51	-	1970000	ug/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	0.5	2.5	Chromium	25	-	23.23	268	mg/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	0.5	2.5	Chrysene	340	44	-	3490000	ug/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	0.5	2.5	Copper	28	-	27.27	40900	mg/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	0.5	2.5	Fluoranthene	690	59	-	27200000	ug/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	0.5	2.5	Indeno(1,2,3-cd)pyrene	190	36	-	34900	ug/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	0.5	2.5	Nickel	18	-	17.89	20400	mg/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	0.5	2.5	Plutonium-239/240	7.88	-	1.35	50	pCi/g
SED	DB47-004	14-Jul-05	750950.860	2088251.874	0.5	2.5	Pyrene	450	210	-	22100000	ug/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	0.5	2.5	Vanadium	55	-	46.83	7150	mg/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	0.5	2.5	Zinc	160	-	104.4	307000	mg/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	2.5	3.9	Aluminum	29000	-	15713.07	228000	mg/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	2.5	3.9	Americium-241	56.5	-	0.27	76	pCi/g
SED	DB47-004	14-Jul-05	750950.860	2088251.874	2.5	3.9	Aroclor-1254	820	18	-	12400	ug/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	2.5	3.9	Arsenic	9.1	-	7.24	22.2	mg/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	2.5	3.9	Barium	230	-	188.17	26400	mg/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	2.5	3.9	Benzo(a)anthracene	220	54	-	34900	ug/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	2.5	3.9	Benzo(a)pyrene	300	54	-	3490	ug/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	2.5	3.9	Benzo(b)fluoranthene	720	140	-	34900	ug/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	2.5	3.9	bis(2-Ethylhexyl)phthalate	25000	330	-	1970000	ug/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	2.5	3.9	Cadmium	44	-	1.88	962	mg/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	2.5	3.9	Chromium	140	-	23.23	268	mg/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	2.5	3.9	Chrysene	460	72	-	3490000	ug/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	2.5	3.9	Copper	120	-	27.27	40900	mg/kg

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
SED	DB47-004	14-Jul-05	750950.860	2088251.874	2.5	3.9	Fluoranthene	1100	96	-	27200000	ug/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	2.5	3.9	Indeno(1,2,3-cd)pyrene	260	59	-	34900	ug/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	2.5	3.9	Iron	22000	-	21379.01	307000	mg/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	2.5	3.9	Lead	110	-	95.6	1000	mg/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	2.5	3.9	Mercury	1.7	-	0.34	25200	mg/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	2.5	3.9	Nickel	31	-	17.89	20400	mg/kg
SED	**DB47-004**	**14-Jul-05**	**750950.860**	**2088251.874**	**2.5**	**3.9**	**Plutonium-239/240**	**217**	**-**	**1.35**	**50**	**pCi/g**
SED	DB47-004	14-Jul-05	750950.860	2088251.874	2.5	3.9	Pyrene	530	350	-	22100000	ug/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	2.5	3.9	Selenium	3.6	-	1.55	5110	mg/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	2.5	3.9	Silver	3100	-	2.28	5110	mg/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	2.5	3.9	Uranium-234	6.04	-	3.98	300	pCi/g
SED	DB47-004	14-Jul-05	750950.860	2088251.874	2.5	3.9	Uranium-238	8.51	-	3.46	351	pCi/g
SED	DB47-004	14-Jul-05	750950.860	2088251.874	2.5	3.9	Vanadium	55	-	46.83	7150	mg/kg
SED	DB47-004	14-Jul-05	750950.860	2088251.874	2.5	3.9	Zinc	410	-	104.4	307000	mg/kg
SED	DB47-005	15-Jul-05	750895.601	2088102.267	0	0.5	Acenaphthene	110	38	-	40800000	ug/kg
SED	DB47-005	15-Jul-05	750895.601	2088102.267	0	0.5	Anthracene	140	38	-	204000000	ug/kg
SED	DB47-005	15-Jul-05	750895.601	2088102.267	0	0.5	Benzo(a)anthracene	300	45	-	34900	ug/kg
SED	DB47-005	15-Jul-05	750895.601	2088102.267	0	0.5	Benzo(a)pyrene	320	45	-	3490	ug/kg
SED	DB47-005	15-Jul-05	750895.601	2088102.267	0	0.5	Benzo(b)fluoranthene	230	120	-	34900	ug/kg
SED	DB47-005	15-Jul-05	750895.601	2088102.267	0	0.5	Benzo(k)fluoranthene	310	90	-	349000	ug/kg
SED	DB47-005	15-Jul-05	750895.601	2088102.267	0	0.5	bis(2-Ethylhexyl)phthalate	310	70	-	1970000	ug/kg
SED	DB47-005	15-Jul-05	750895.601	2088102.267	0	0.5	Chrysene	350	61	-	3490000	ug/kg
SED	DB47-005	15-Jul-05	750895.601	2088102.267	0	0.5	Dibenz(a,h)anthracene	92	43	-	3490	ug/kg
SED	DB47-005	15-Jul-05	750895.601	2088102.267	0	0.5	Fluoranthene	750	81	-	27200000	ug/kg
SED	DB47-005	15-Jul-05	750895.601	2088102.267	0	0.5	Fluorene	94	41	-	40800000	ug/kg
SED	DB47-005	15-Jul-05	750895.601	2088102.267	0	0.5	Indeno(1,2,3-cd)pyrene	200	50	-	34900	ug/kg
SED	DB47-005	15-Jul-05	750895.601	2088102.267	0	0.5	Pyrene	700	290	-	22100000	ug/kg
SED	DB47-005	15-Jul-05	750895.601	2088102.267	0	0.5	Silver	2.7	-	2.28	5110	mg/kg
SED	DB47-005	15-Jul-05	750895.601	2088102.267	0	0.5	Zinc	220	-	104.4	307000	mg/kg
SED	DB47-006	22-Aug-05	750950.860	2088251.874	1.0	3.0	Americium-241	0.406	-	0.27	76	pCi/g
SED	SED63592	22-Oct-92	750911.310	2088161.750	0	2	Americium-241	2.177	-	0.27	76	pCi/g
SED	SED63592	22-Oct-92	750911.310	2088161.750	0	2	Antimony	24.7	-	13.01	409	mg/kg

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
SED	SED63592	22-Oct-92	750911.310	2088161.750	0	2	Benzo(b)fluoranthene	660	660	-	34900	ug/kg
SED	SED63592	22-Oct-92	750911.310	2088161.750	0	2	bis(2-Ethylhexyl)phthalate	980	660	-	1970000	ug/kg
SED	SED63592	22-Oct-92	750911.310	2088161.750	0	2	Fluoranthene	1100	660	-	27200000	ug/kg
SED	SED63592	22-Oct-92	750911.310	2088161.750	0	2	Plutonium-239/240	8.37	-	1.35	50	pCi/g
SED	SED63592	22-Oct-92	750911.310	2088161.750	0	2	Pyrene	890	660	-	22100000	ug/kg
SED	SED63592	22-Oct-92	750911.310	2088161.750	0	2	Toluene	18	5	-	31300000	ug/kg
SED	SED63592	22-Oct-92	750911.310	2088161.750	0	2	Zinc	127	-	104.4	307000	mg/kg
SED	SED63592	22-Oct-92	750911.310	2088161.750	0	3.17	Americium-241	3.457	-	0.27	76	pCi/g
SED	SED63592	22-Oct-92	750911.310	2088161.750	0	3.17	Benzo(b)fluoranthene	740	660	-	34900	ug/kg
SED	SED63592	22-Oct-92	750911.310	2088161.750	0	3.17	Benzo(k)fluoranthene	350	330	-	349000	ug/kg
SED	SED63592	22-Oct-92	750911.310	2088161.750	0	3.17	bis(2-Ethylhexyl)phthalate	1100	660	-	1970000	ug/kg
SED	SED63592	22-Oct-92	750911.310	2088161.750	0	3.17	Fluoranthene	1200	660	-	27200000	ug/kg
SED	SED63592	22-Oct-92	750911.310	2088161.750	0	3.17	Plutonium-239/240	11.16	-	1.35	50	pCi/g
SED	SED63592	22-Oct-92	750911.310	2088161.750	0	3.17	Pyrene	1000	660	-	22100000	ug/kg
SED	SED63592	22-Oct-92	750911.310	2088161.750	0	3.17	Silver	2.7	-	2.28	5110	mg/kg
SED	SED63592	22-Oct-92	750911.310	2088161.750	0	3.17	Zinc	135	-	104.4	307000	mg/kg
SED	SED63692	26-Oct-92	750932.310	2088212.870	0	1.33	Americium-241	0.4584	-	0.27	76	pCi/g
SED	SED63692	26-Oct-92	750932.310	2088212.870	0	1.33	Fluoranthene	750	660	-	27200000	ug/kg
SED	SED63692	26-Oct-92	750932.310	2088212.870	0	1.33	Zinc	153	-	104.4	307000	mg/kg
SED	SED63792	26-Oct-92	750880.810	2088254.750	0	2	Americium-241	0.5881	-	0.27	76	pCi/g
SED	SED63792	26-Oct-92	750880.810	2088254.750	0	2	Aroclor-1254	440	350	-	12400	ug/kg
SED	SED63792	26-Oct-92	750880.810	2088254.750	0	2	Arsenic	7.4	-	7.24	22.2	mg/kg
SED	SED63792	26-Oct-92	750880.810	2088254.750	0	2	Benzo(b)fluoranthene	1000	660	-	34900	ug/kg
SED	SED63792	26-Oct-92	750880.810	2088254.750	0	2	bis(2-Ethylhexyl)phthalate	2600	660	-	1970000	ug/kg
SED	SED63792	26-Oct-92	750880.810	2088254.750	0	2	Copper	29.9	-	27.27	40900	mg/kg
SED	SED63792	26-Oct-92	750880.810	2088254.750	0	2	Fluoranthene	1100	660	-	27200000	ug/kg
SED	SED63792	26-Oct-92	750880.810	2088254.750	0	2	Nickel	19	-	17.89	20400	mg/kg
SED	SED63792	26-Oct-92	750880.810	2088254.750	0	2	Pyrene	860	660	-	22100000	ug/kg
SED	SED63792	26-Oct-92	750880.810	2088254.750	0	2	Toluene	360	5	-	31300000	ug/kg
SED	SED63792	26-Oct-92	750880.810	2088254.750	0	2	Zinc	319	-	104.4	307000	mg/kg
SED	SED63792	26-Oct-92	750880.810	2088254.750	0	2.5	Americium-241	2.56	-	0.27	76	pCi/g
SED	SED63792	26-Oct-92	750880.810	2088254.750	0	2.5	Aroclor-1254	560	350	-	12400	ug/kg

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
SED	SED63792	26-Oct-92	750880.810	2088254.750	0	2.5	Benzo(b)fluoranthene	1500	660	-	34900	ug/kg
SED	SED63792	26-Oct-92	750880.810	2088254.750	0	2.5	Benzo(k)fluoranthene	350	330	-	349000	ug/kg
SED	SED63792	26-Oct-92	750880.810	2088254.750	0	2.5	bis(2-Ethylhexyl)phthalate	3200	660	-	1970000	ug/kg
SED	SED63792	26-Oct-92	750880.810	2088254.750	0	2.5	Copper	32.2	-	27.27	40900	mg/kg
SED	SED63792	26-Oct-92	750880.810	2088254.750	0	2.5	Fluoranthene	1400	660	-	27200000	ug/kg
SED	SED63792	26-Oct-92	750880.810	2088254.750	0	2.5	gamma-BHC	25	8	-	25500	ug/kg
SED	SED63792	26-Oct-92	750880.810	2088254.750	0	2.5	Nickel	22	-	17.89	20400	mg/kg
SED	SED63792	26-Oct-92	750880.810	2088254.750	0	2.5	Plutonium-239/240	9.577	-	1.35	50	pCi/g
SED	SED63792	26-Oct-92	750880.810	2088254.750	0	2.5	Pyrene	1200	660	-	22100000	ug/kg
SED	SED63792	26-Oct-92	750880.810	2088254.750	0	2.5	Silver	19.6	-	2.28	5110	mg/kg
SED	SED63792	26-Oct-92	750880.810	2088254.750	0	2.5	Zinc	197	-	104.4	307000	mg/kg
SED	SED63892	22-Oct-92	750889.250	2088223.370	0	2	Americium-241	0.4847	-	0.27	76	pCi/g
SED	SED63892	22-Oct-92	750889.250	2088223.370	0	2	Antimony	25.6	-	13.01	409	mg/kg
SED	SED63892	22-Oct-92	750889.250	2088223.370	0	2	Arsenic	8.8	-	7.24	22.2	mg/kg
SED	SED63892	22-Oct-92	750889.250	2088223.370	0	2	Barium	196	-	188.17	26400	mg/kg
SED	SED63892	22-Oct-92	750889.250	2088223.370	0	2	Benzo(b)fluoranthene	660	660	-	34900	ug/kg
SED	SED63892	22-Oct-92	750889.250	2088223.370	0	2	bis(2-Ethylhexyl)phthalate	2100	660	-	1970000	ug/kg
SED	SED63892	22-Oct-92	750889.250	2088223.370	0	2	Cadmium	3.2	-	1.88	962	mg/kg
SED	SED63892	22-Oct-92	750889.250	2088223.370	0	2	Copper	30.2	-	27.27	40900	mg/kg
SED	SED63892	22-Oct-92	750889.250	2088223.370	0	2	Fluoranthene	950	660	-	27200000	ug/kg
SED	SED63892	22-Oct-92	750889.250	2088223.370	0	2	Pyrene	820	660	-	22100000	ug/kg
SED	SED63892	22-Oct-92	750889.250	2088223.370	0	2	Toluene	17	5	-	31300000	ug/kg
SED	SED63892	22-Oct-92	750889.250	2088223.370	0	2	Zinc	303	-	104.4	307000	mg/kg
SED	SED63892	22-Oct-92	750889.250	2088223.370	0	2.75	Americium-241	7.452	-	0.27	76	pCi/g
SED	SED63892	22-Oct-92	750889.250	2088223.370	0	2.75	Aroclor-1254	1100	350	-	12400	ug/kg
SED	SED63892	22-Oct-92	750889.250	2088223.370	0	2.75	Arsenic	7.3	-	7.24	22.2	mg/kg
SED	SED63892	22-Oct-92	750889.250	2088223.370	0	2.75	Barium	190	-	188.17	26400	mg/kg
SED	SED63892	22-Oct-92	750889.250	2088223.370	0	2.75	Benzo(b)fluoranthene	770	660	-	34900	ug/kg
SED	SED63892	22-Oct-92	750889.250	2088223.370	0	2.75	Benzo(k)fluoranthene	360	330	-	349000	ug/kg
SED	SED63892	22-Oct-92	750889.250	2088223.370	0	2.75	bis(2-Ethylhexyl)phthalate	5000	660	-	1970000	ug/kg
SED	SED63892	22-Oct-92	750889.250	2088223.370	0	2.75	Cadmium	1.9	-	1.88	962	mg/kg
SED	SED63892	22-Oct-92	750889.250	2088223.370	0	2.75	Chromium	26.1	-	23.23	268	mg/kg

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
SED	SED63892	22-Oct-92	750889.250	2088223.370	0	2.75	Copper	38.4	-	27.27	40900	mg/kg
SED	SED63892	22-Oct-92	750889.250	2088223.370	0	2.75	Fluoranthene	1100	660	-	27200000	ug/kg
SED	SED63892	22-Oct-92	750889.250	2088223.370	0	2.75	Plutonium-239/240	24.09	-	1.35	50	pCi/g
SED	SED63892	22-Oct-92	750889.250	2088223.370	0	2.75	Pyrene	1000	660	-	22100000	ug/kg
SED	SED63892	22-Oct-92	750889.250	2088223.370	0	2.75	Silver	102	-	2.28	5110	mg/kg
SED	SED63892	22-Oct-92	750889.250	2088223.370	0	2.75	Zinc	194	-	104.4	307000	mg/kg
SED	SED63992	26-Oct-92	750909.930	2088138.120	0	1.67	Americium-241	0.5077	-	0.27	76	pCi/g
SED	SED63992	26-Oct-92	750909.930	2088138.120	0	1.67	Benzo(b)fluoranthene	710	660	-	34900	ug/kg
SED	SED63992	26-Oct-92	750909.930	2088138.120	0	1.67	bis(2-Ethylhexyl)phthalate	900	660	-	1970000	ug/kg
SED	SED63992	26-Oct-92	750909.930	2088138.120	0	1.67	Fluoranthene	1100	660	-	27200000	ug/kg
SED	SED63992	26-Oct-92	750909.930	2088138.120	0	1.67	Nickel	22.3	-	17.89	20400	mg/kg
SED	SED63992	26-Oct-92	750909.930	2088138.120	0	1.67	Pyrene	970	660	-	22100000	ug/kg
SED	SED63992	26-Oct-92	750909.930	2088138.120	0	1.67	Zinc	196	-	104.4	307000	mg/kg
Pond B-5												
SED	B5 Outlet(N)	13-Oct-97	752069.000	2089509.000	0	0.5	Carbon Tetrachloride	440	5	-	81500	ug/kg
SED	B5 Outlet(N)	13-Oct-97	752069.000	2089509.000	0	0.5	Methylene chloride	420	5	-	2530000	ug/kg
SED	B5 Outlet(S)	13-Oct-97	751946.688	2089600.000	0	0.5	Carbon Tetrachloride	390	5	-	81500	ug/kg
SED	B5 Outlet(S)	13-Oct-97	751946.688	2089600.000	0	0.5	Methylene chloride	410	5	-	2530000	ug/kg
SED	DF51-000	27-Jul-05	751815.258	2089219.265	0.5	2.5	Americium-241	0.145	-	0.02	76	pCi/g
SED	DF51-000	27-Jul-05	751815.258	2089219.265	0.5	2.5	Plutonium-239/240	0.338	-	0.02	50	pCi/g
SED	DF51-000	27-Jul-05	751815.258	2089219.265	0.5	2.5	Uranium-235	0.243	-	0.12	8	pCi/g
SED	DF51-000	27-Jul-05	751815.258	2089219.265	0.5	2.5	Uranium-238	1.52	-	1.49	351	pCi/g
SED	DG52-000	27-Jul-05	751864.462	2089417.365	0	0.8	Americium-241	0.337	-	0.02	76	pCi/g
SED	DG52-000	27-Jul-05	751864.462	2089417.365	0	0.8	Lead	27	-	24.97	1000	mg/kg
SED	DG52-000	27-Jul-05	751864.462	2089417.365	0	0.8	Plutonium-239/240	0.372	-	0.02	50	pCi/g
SED	DG52-000	27-Jul-05	751864.462	2089417.365	0	0.8	Uranium-238	1.53	-	1.49	351	pCi/g
SED	DG52-000	27-Jul-05	751864.462	2089417.365	0	0.8	Zinc	240	-	139.1	307000	mg/kg
SED	DG52-001	27-Jul-05	751904.539	2089488.993	0	0.9	Lead	30	-	24.97	1000	mg/kg

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
SED	DG52-001	27-Jul-05	751904.539	2089488.993	0	0.9	Plutonium-239/240	0.326	-	0.02	50	pCi/g
SED	DH52-000	27-Jul-05	751942.137	2089531.175	0	0.8	Americium-241	0.224	-	0.02	76	pCi/g
SED	DH52-000	27-Jul-05	751942.137	2089531.175	0	0.8	Lead	31	-	24.97	1000	mg/kg
SED	DH52-000	27-Jul-05	751942.137	2089531.175	0	0.8	Plutonium-239/240	0.895	-	0.02	50	pCi/g
SED	DH52-000	27-Jul-05	751942.137	2089531.175	0	0.8	Zinc	160	-	139.1	307000	mg/kg
SED	DH53-000	26-Jul-05	752034.017	2089542.971	0	0.5	Americium-241	0.107	-	0.02	76	pCi/g
SED	DH53-000	26-Jul-05	752034.017	2089542.971	0	0.5	Plutonium-239/240	0.627	-	0.02	50	pCi/g
SED	SED64092	19-Oct-92	751734.180	2089080.370	0	0.75	Nickel	18.6	-	17.89	20400	mg/kg
SED	SED64092	19-Oct-92	751734.180	2089080.370	0	0.75	Toluene	21	5	-	31300000	ug/kg
SED	SED64192	19-Oct-92	751923.500	2089540.120	0	0.42	Aluminum	20400	-	15713.07	228000	mg/kg
SED	SED64192	19-Oct-92	751923.500	2089540.120	0	0.42	Arsenic	8.3	-	7.24	22.2	mg/kg
SED	SED64192	19-Oct-92	751923.500	2089540.120	0	0.42	Nickel	19.2	-	17.89	20400	mg/kg
SED	SED64192	19-Oct-92	751923.500	2089540.120	0	0.42	Toluene	12	5	-	31300000	ug/kg
SED	SED64192	19-Oct-92	751923.500	2089540.120	0	0.42	Vanadium	47.8	-	46.83	7150	mg/kg
SED	SED64292	20-Oct-92	752081.620	2089465.500	0	0.33	Aluminum	16500	-	15713.07	228000	mg/kg
SED	SED64292	20-Oct-92	752081.620	2089465.500	0	0.33	Nickel	19.7	-	17.89	20400	mg/kg
SED	SED64292	20-Oct-92	752081.620	2089465.500	0	0.33	Toluene	17	5	-	31300000	ug/kg
SED	SED64292	20-Oct-92	752081.620	2089465.500	0	0.33	Zinc	112	-	104.4	307000	mg/kg
SED	SED64392	20-Oct-92	751994.310	2089520.500	0	1	Aluminum	17900	-	15713.07	228000	mg/kg
SED	SED64392	20-Oct-92	751994.310	2089520.500	0	1	Americium-241	0.3054	-	0.27	76	pCi/g
SED	SED64392	20-Oct-92	751994.310	2089520.500	0	1	Arsenic	8.6	-	7.24	22.2	mg/kg
SED	SED64392	20-Oct-92	751994.310	2089520.500	0	1	Barium	194	-	188.17	26400	mg/kg
SED	SED64392	20-Oct-92	751994.310	2089520.500	0	1	Copper	29.9	-	27.27	40900	mg/kg
SED	SED64392	20-Oct-92	751994.310	2089520.500	0	1	Nickel	23.8	-	17.89	20400	mg/kg
SED	SED64392	20-Oct-92	751994.310	2089520.500	0	1	Toluene	25	5	-	31300000	ug/kg
SED	SED64392	20-Oct-92	751994.310	2089520.500	0	1	Zinc	174	-	104.4	307000	mg/kg
SED	SED64492	20-Oct-92	751639.250	2088979.870	0	0.33	Aluminum	15900	-	15713.07	228000	mg/kg
SED	SED64492	20-Oct-92	751639.250	2088979.870	0	0.33	Tin	39.5	-	29.27	613000	mg/kg
SED	SED64492	20-Oct-92	751639.250	2088979.870	0	0.33	Toluene	47	5	-	31300000	ug/kg
Pond C-1												
SED	CR31-000	24-Sep-02	747595.140	2086237.150	0	0.5	Barium	788	-	188.17	26400	mg/kg
SED	CR31-000	24-Sep-02	747595.140	2086237.150	0	0.5	Chromium	35.9	-	23.23	268	mg/kg

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
SED	CR31-000	24-Sep-02	747595.140	2086237.150	0	0.5	Copper	50.9	-	27.27	40900	mg/kg
SED	CR31-000	24-Sep-02	747595.140	2086237.150	0	0.5	Iron	42200	-	21379.01	307000	mg/kg
SED	CR31-000	24-Sep-02	747595.140	2086237.150	0	0.5	Manganese	745	-	659.22	3480	mg/kg
SED	CR31-000	24-Sep-02	747595.140	2086237.150	0	0.5	Nickel	41.7	-	17.89	20400	mg/kg
SED	CR31-000	24-Sep-02	747595.140	2086237.150	0	0.5	Selenium	3.46	-	1.55	5110	mg/kg
SED	CR31-000	24-Sep-02	747595.140	2086237.150	0	0.5	Strontium	250	-	201.44	613000	mg/kg
SED	CR31-000	24-Sep-02	747595.140	2086237.150	0	0.5	Uranium-234	5.7	-	3.98	300	pCi/g
SED	CR31-000	24-Sep-02	747595.140	2086237.150	0	0.5	Uranium-235	0.51	-	0.15	8	pCi/g
SED	CR31-000	24-Sep-02	747595.140	2086237.150	0	0.5	Uranium-238	5.7	-	3.46	351	pCi/g
SED	CR31-000	24-Sep-02	747595.140	2086237.150	0	0.5	Vanadium	105	-	46.83	7150	mg/kg
SED	CR31-000	24-Sep-02	747595.140	2086237.150	0	0.5	Zinc	137	-	104.4	307000	mg/kg
SED	CR31-000	24-Sep-02	747595.140	2086237.150	0.5	1.5	Arsenic	7.72	-	7.24	22.2	mg/kg
SED	CR31-000	24-Sep-02	747595.140	2086237.150	0.5	1.5	Barium	880	-	188.17	26400	mg/kg
SED	CR31-000	24-Sep-02	747595.140	2086237.150	0.5	1.5	Chromium	40.8	-	23.23	268	mg/kg
SED	CR31-000	24-Sep-02	747595.140	2086237.150	0.5	1.5	Copper	51.5	-	27.27	40900	mg/kg
SED	CR31-000	24-Sep-02	747595.140	2086237.150	0.5	1.5	Iron	37100	-	21379.01	307000	mg/kg
SED	CR31-000	24-Sep-02	747595.140	2086237.150	0.5	1.5	Nickel	41.6	-	17.89	20400	mg/kg
SED	CR31-000	24-Sep-02	747595.140	2086237.150	0.5	1.5	Selenium	2.24	-	1.55	5110	mg/kg
SED	CR31-000	24-Sep-02	747595.140	2086237.150	0.5	1.5	Strontium	217	-	201.44	613000	mg/kg
SED	CR31-000	24-Sep-02	747595.140	2086237.150	0.5	1.5	Uranium-234	13	-	3.98	300	pCi/g
SED	CR31-000	24-Sep-02	747595.140	2086237.150	0.5	1.5	Uranium-235	0.44	-	0.15	8	pCi/g
SED	CR31-000	24-Sep-02	747595.140	2086237.150	0.5	1.5	Uranium-238	13	-	3.46	351	pCi/g
SED	CR31-000	24-Sep-02	747595.140	2086237.150	0.5	1.5	Vanadium	150	-	46.83	7150	mg/kg
SED	CR31-000	24-Sep-02	747595.140	2086237.150	0.5	1.5	Zinc	152	-	104.4	307000	mg/kg
SED	CR31-000	24-Sep-02	747595.140	2086237.150	1.5	2.5	Arsenic	10.2	-	7.24	22.2	mg/kg
SED	CR31-000	24-Sep-02	747595.140	2086237.150	1.5	2.5	Barium	737	-	188.17	26400	mg/kg
SED	CR31-000	24-Sep-02	747595.140	2086237.150	1.5	2.5	Chromium	34.2	-	23.23	268	mg/kg
SED	CR31-000	24-Sep-02	747595.140	2086237.150	1.5	2.5	Copper	50.4	-	27.27	40900	mg/kg
SED	CR31-000	24-Sep-02	747595.140	2086237.150	1.5	2.5	Iron	36300	-	21379.01	307000	mg/kg
SED	CR31-000	24-Sep-02	747595.140	2086237.150	1.5	2.5	Nickel	41.2	-	17.89	20400	mg/kg
SED	CR31-000	24-Sep-02	747595.140	2086237.150	1.5	2.5	Strontium	202	-	201.44	613000	mg/kg
SED	CR31-000	24-Sep-02	747595.140	2086237.150	1.5	2.5	Uranium-234	8.7	-	3.98	300	pCi/g

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
SED	CR31-000	24-Sep-02	747595.140	2086237.150	1.5	2.5	Uranium-235	0.48	-	0.15	8	pCi/g
SED	CR31-000	24-Sep-02	747595.140	2086237.150	1.5	2.5	Uranium-238	8.7	-	3.46	351	pCi/g
SED	CR31-000	24-Sep-02	747595.140	2086237.150	1.5	2.5	Vanadium	148	-	46.83	7150	mg/kg
SED	CR31-000	24-Sep-02	747595.140	2086237.150	1.5	2.5	Zinc	144	-	104.4	307000	mg/kg
SED	CR31-001	25-Sep-02	747724.580	2086262.200	0	0.5	Barium	857	-	188.17	26400	mg/kg
SED	CR31-001	25-Sep-02	747724.580	2086262.200	0	0.5	Chromium	45.3	-	23.23	268	mg/kg
SED	CR31-001	25-Sep-02	747724.580	2086262.200	0	0.5	Copper	71	-	27.27	40900	mg/kg
SED	CR31-001	25-Sep-02	747724.580	2086262.200	0	0.5	Iron	36800	-	21379.01	307000	mg/kg
SED	CR31-001	25-Sep-02	747724.580	2086262.200	0	0.5	Nickel	39.2	-	17.89	20400	mg/kg
SED	CR31-001	25-Sep-02	747724.580	2086262.200	0	0.5	Selenium	3.93	-	1.55	5110	mg/kg
SED	CR31-001	25-Sep-02	747724.580	2086262.200	0	0.5	Strontium	368	-	201.44	613000	mg/kg
SED	CR31-001	25-Sep-02	747724.580	2086262.200	0	0.5	Uranium-234	8.9	-	3.98	300	pCi/g
SED	CR31-001	25-Sep-02	747724.580	2086262.200	0	0.5	Uranium-235	0.48	-	0.15	8	pCi/g
SED	CR31-001	25-Sep-02	747724.580	2086262.200	0	0.5	Uranium-238	8.9	-	3.46	351	pCi/g
SED	CR31-001	25-Sep-02	747724.580	2086262.200	0	0.5	Vanadium	147	-	46.83	7150	mg/kg
SED	CR31-001	25-Sep-02	747724.580	2086262.200	0	0.5	Zinc	152	-	104.4	307000	mg/kg
SED	CR31-001	25-Sep-02	747724.580	2086262.200	0.5	1.5	Arsenic	14.5	-	7.24	22.2	mg/kg
SED	CR31-001	25-Sep-02	747724.580	2086262.200	0.5	1.5	Barium	757	-	188.17	26400	mg/kg
SED	CR31-001	25-Sep-02	747724.580	2086262.200	0.5	1.5	Chromium	36.6	-	23.23	268	mg/kg
SED	CR31-001	25-Sep-02	747724.580	2086262.200	0.5	1.5	Copper	59.3	-	27.27	40900	mg/kg
SED	CR31-001	25-Sep-02	747724.580	2086262.200	0.5	1.5	Iron	36100	-	21379.01	307000	mg/kg
SED	CR31-001	25-Sep-02	747724.580	2086262.200	0.5	1.5	Nickel	46	-	17.89	20400	mg/kg
SED	CR31-001	25-Sep-02	747724.580	2086262.200	0.5	1.5	Selenium	1.82	-	1.55	5110	mg/kg
SED	CR31-001	25-Sep-02	747724.580	2086262.200	0.5	1.5	Strontium	205	-	201.44	613000	mg/kg
SED	CR31-001	25-Sep-02	747724.580	2086262.200	0.5	1.5	Uranium-234	11	-	3.98	300	pCi/g
SED	CR31-001	25-Sep-02	747724.580	2086262.200	0.5	1.5	Uranium-235	0.5	-	0.15	8	pCi/g
SED	CR31-001	25-Sep-02	747724.580	2086262.200	0.5	1.5	Uranium-238	11	-	3.46	351	pCi/g
SED	CR31-001	25-Sep-02	747724.580	2086262.200	0.5	1.5	Vanadium	150	-	46.83	7150	mg/kg
SED	CR31-001	25-Sep-02	747724.580	2086262.200	0.5	1.5	Zinc	157	-	104.4	307000	mg/kg
SED	CR31-001	25-Sep-02	747724.580	2086262.200	1.5	2	Arsenic	12.9	-	7.24	22.2	mg/kg
SED	CR31-001	25-Sep-02	747724.580	2086262.200	1.5	2	Barium	754	-	188.17	26400	mg/kg
SED	CR31-001	25-Sep-02	747724.580	2086262.200	1.5	2	Chromium	40.2	-	23.23	268	mg/kg

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
SED	CR31-001	25-Sep-02	747724.580	2086262.200	1.5	2	Copper	47	-	27.27	40900	mg/kg
SED	CR31-001	25-Sep-02	747724.580	2086262.200	1.5	2	Iron	34800	-	21379.01	307000	mg/kg
SED	CR31-001	25-Sep-02	747724.580	2086262.200	1.5	2	Nickel	41.2	-	17.89	20400	mg/kg
SED	CR31-001	25-Sep-02	747724.580	2086262.200	1.5	2	Strontium	207	-	201.44	613000	mg/kg
SED	CR31-001	25-Sep-02	747724.580	2086262.200	1.5	2	Uranium-234	5.7	-	3.98	300	pCi/g
SED	CR31-001	25-Sep-02	747724.580	2086262.200	1.5	2	Uranium-235	0.47	-	0.15	8	pCi/g
SED	CR31-001	25-Sep-02	747724.580	2086262.200	1.5	2	Uranium-238	5.7	-	3.46	351	pCi/g
SED	CR31-001	25-Sep-02	747724.580	2086262.200	1.5	2	Vanadium	155	-	46.83	7150	mg/kg
SED	CR31-001	25-Sep-02	747724.580	2086262.200	1.5	2	Zinc	135	-	104.4	307000	mg/kg
SED	CR31-002	24-Sep-02	747597.863	2086311.578	0	0.5	Barium	846	-	188.17	26400	mg/kg
SED	CR31-002	24-Sep-02	747597.863	2086311.578	0	0.5	Chromium	44.9	-	23.23	268	mg/kg
SED	CR31-002	24-Sep-02	747597.863	2086311.578	0	0.5	Copper	53.5	-	27.27	40900	mg/kg
SED	CR31-002	24-Sep-02	747597.863	2086311.578	0	0.5	Iron	32700	-	21379.01	307000	mg/kg
SED	CR31-002	24-Sep-02	747597.863	2086311.578	0	0.5	Manganese	749	-	659.22	3480	mg/kg
SED	CR31-002	24-Sep-02	747597.863	2086311.578	0	0.5	Nickel	33	-	17.89	20400	mg/kg
SED	CR31-002	24-Sep-02	747597.863	2086311.578	0	0.5	Selenium	2.07	-	1.55	5110	mg/kg
SED	CR31-002	24-Sep-02	747597.863	2086311.578	0	0.5	Strontium	378	-	201.44	613000	mg/kg
SED	CR31-002	24-Sep-02	747597.863	2086311.578	0	0.5	Uranium-234	4.1	-	3.98	300	pCi/g
SED	CR31-002	24-Sep-02	747597.863	2086311.578	0	0.5	Uranium-238	4.1	-	3.46	351	pCi/g
SED	CR31-002	24-Sep-02	747597.863	2086311.578	0	0.5	Vanadium	119	-	46.83	7150	mg/kg
SED	CR31-002	24-Sep-02	747597.863	2086311.578	0	0.5	Zinc	115	-	104.4	307000	mg/kg
SED	CR31-003	24-Sep-02	747673.609	2086234.789	0	0.5	Arsenic	10.1	-	7.24	22.2	mg/kg
SED	CR31-003	24-Sep-02	747673.609	2086234.789	0	0.5	Barium	756	-	188.17	26400	mg/kg
SED	CR31-003	24-Sep-02	747673.609	2086234.789	0	0.5	Chromium	44.9	-	23.23	268	mg/kg
SED	CR31-003	24-Sep-02	747673.609	2086234.789	0	0.5	Copper	83.5	-	27.27	40900	mg/kg
SED	CR31-003	24-Sep-02	747673.609	2086234.789	0	0.5	Iron	43400	-	21379.01	307000	mg/kg
SED	CR31-003	24-Sep-02	747673.609	2086234.789	0	0.5	Nickel	49.4	-	17.89	20400	mg/kg
SED	CR31-003	24-Sep-02	747673.609	2086234.789	0	0.5	Selenium	3.44	-	1.55	5110	mg/kg
SED	CR31-003	24-Sep-02	747673.609	2086234.789	0	0.5	Strontium	215	-	201.44	613000	mg/kg
SED	CR31-003	24-Sep-02	747673.609	2086234.789	0	0.5	Uranium-234	8.3	-	3.98	300	pCi/g
SED	CR31-003	24-Sep-02	747673.609	2086234.789	0	0.5	Uranium-235	0.59	-	0.15	8	pCi/g
SED	CR31-003	24-Sep-02	747673.609	2086234.789	0	0.5	Uranium-238	8.3	-	3.46	351	pCi/g

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
SED	CR31-003	24-Sep-02	747673.609	2086234.789	0	0.5	Vanadium	198	-	46.83	7150	mg/kg
SED	CR31-003	24-Sep-02	747673.609	2086234.789	0	0.5	Zinc	176	-	104.4	307000	mg/kg
SED	CR31-005	19-Jul-05	747761.433	2086268.068	0	0.5	2,4-Dinitrophenol	890	270	-	2040000	ug/kg
SED	CR31-005	19-Jul-05	747761.433	2086268.068	0	0.5	4,6-Dinitro-2-methylphenol	750	350	-	1020000	ug/kg
SED	CR31-005	19-Jul-05	747761.433	2086268.068	0	0.5	Aluminum	31000	-	15713.07	228000	mg/kg
SED	CR31-005	19-Jul-05	747761.433	2086268.068	0	0.5	Anthracene	440	37	-	204000000	ug/kg
SED	CR31-005	19-Jul-05	747761.433	2086268.068	0	0.5	Barium	320	-	188.17	26400	mg/kg
SED	CR31-005	19-Jul-05	747761.433	2086268.068	0	0.5	Benzo(a)anthracene	190	43	-	34900	ug/kg
SED	CR31-005	19-Jul-05	747761.433	2086268.068	0	0.5	Benzo(a)pyrene	170	43	-	3490	ug/kg
SED	CR31-005	19-Jul-05	747761.433	2086268.068	0	0.5	Benzo(b)fluoranthene	170	120	-	34900	ug/kg
SED	CR31-005	19-Jul-05	747761.433	2086268.068	0	0.5	Benzo(k)fluoranthene	150	87	-	349000	ug/kg
SED	CR31-005	19-Jul-05	747761.433	2086268.068	0	0.5	Chromium	30	-	23.23	268	mg/kg
SED	CR31-005	19-Jul-05	747761.433	2086268.068	0	0.5	Chrysene	190	59	-	3490000	ug/kg
SED	CR31-005	19-Jul-05	747761.433	2086268.068	0	0.5	Cobalt	13	-	12.3	1550	mg/kg
SED	CR31-005	19-Jul-05	747761.433	2086268.068	0	0.5	Copper	30	-	27.27	40900	mg/kg
SED	CR31-005	19-Jul-05	747761.433	2086268.068	0	0.5	Dibenz(a,h)anthracene	530	41	-	3490	ug/kg
SED	CR31-005	19-Jul-05	747761.433	2086268.068	0	0.5	Fluoranthene	120	78	-	27200000	ug/kg
SED	CR31-005	19-Jul-05	747761.433	2086268.068	0	0.5	Indeno(1,2,3-cd)pyrene	500	48	-	34900	ug/kg
SED	CR31-005	19-Jul-05	747761.433	2086268.068	0	0.5	Iron	28000	-	21379.01	307000	mg/kg
SED	CR31-005	19-Jul-05	747761.433	2086268.068	0	0.5	Nickel	24	-	17.89	20400	mg/kg
SED	CR31-005	19-Jul-05	747761.433	2086268.068	0	0.5	Pentachlorophenol	950	240	-	162000	ug/kg
SED	CR31-005	19-Jul-05	747761.433	2086268.068	0	0.5	Selenium	2.8	-	1.55	5110	mg/kg
SED	CR31-005	19-Jul-05	747761.433	2086268.068	0	0.5	Uranium-235	0.405	-	0.15	8	pCi/g
SED	CR31-005	19-Jul-05	747761.433	2086268.068	0	0.5	Vanadium	56	-	46.83	7150	mg/kg
SED	CR31-005	19-Jul-05	747761.433	2086268.068	0	0.5	Zinc	140	-	104.4	307000	mg/kg
SED	CR31-006	19-Jul-05	747595.098	2086246.573	0	0.5	Aluminum	23000	-	15713.07	228000	mg/kg
SED	CR31-006	19-Jul-05	747595.098	2086246.573	0	0.5	Americium-241	0.442	-	0.27	76	pCi/g
SED	CR31-006	19-Jul-05	747595.098	2086246.573	0	0.5	Anthracene	450	41	-	204000000	ug/kg
SED	CR31-006	19-Jul-05	747595.098	2086246.573	0	0.5	Barium	330	-	188.17	26400	mg/kg
SED	CR31-006	19-Jul-05	747595.098	2086246.573	0	0.5	Chromium	29	-	23.23	268	mg/kg
SED	CR31-006	19-Jul-05	747595.098	2086246.573	0	0.5	Iron	31000	-	21379.01	307000	mg/kg

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
SED	CR31-006	19-Jul-05	747595.098	2086246.573	0	0.5	Nickel	20	-	17.89	20400	mg/kg
SED	CR31-006	19-Jul-05	747595.098	2086246.573	0	0.5	Plutonium-239/240	2.2	-	1.35	50	pCi/g
SED	CR31-006	19-Jul-05	747595.098	2086246.573	0	0.5	Selenium	2.7	-	1.55	5110	mg/kg
SED	CR31-006	19-Jul-05	747595.098	2086246.573	0.5	2	Acenaphthene	360	35	-	40800000	ug/kg
SED	CR31-006	19-Jul-05	747595.098	2086246.573	0.5	2	Aluminum	32000	-	15713.07	228000	mg/kg
SED	CR31-006	19-Jul-05	747595.098	2086246.573	0.5	2	Americium-241	0.275	-	0.27	76	pCi/g
SED	CR31-006	19-Jul-05	747595.098	2086246.573	0.5	2	Anthracene	410	35	-	204000000	ug/kg
SED	CR31-006	19-Jul-05	747595.098	2086246.573	0.5	2	Barium	270	-	188.17	26400	mg/kg
SED	CR31-006	19-Jul-05	747595.098	2086246.573	0.5	2	Benzo(a)anthracene	83	41	-	34900	ug/kg
SED	CR31-006	19-Jul-05	747595.098	2086246.573	0.5	2	Benzo(a)pyrene	79	41	-	3490	ug/kg
SED	CR31-006	19-Jul-05	747595.098	2086246.573	0.5	2	Chromium	26	-	23.23	268	mg/kg
SED	CR31-006	19-Jul-05	747595.098	2086246.573	0.5	2	Chrysene	81	56	-	3490000	ug/kg
SED	CR31-006	19-Jul-05	747595.098	2086246.573	0.5	2	Fluoranthene	130	75	-	27200000	ug/kg
SED	CR31-006	19-Jul-05	747595.098	2086246.573	0.5	2	Indeno(1,2,3-cd)pyrene	400	46	-	34900	ug/kg
SED	CR31-006	19-Jul-05	747595.098	2086246.573	0.5	2	Iron	27000	-	21379.01	307000	mg/kg
SED	CR31-006	19-Jul-05	747595.098	2086246.573	0.5	2	Nickel	22	-	17.89	20400	mg/kg
SED	CR31-006	19-Jul-05	747595.098	2086246.573	0.5	2	Uranium-235	0.341	-	0.15	8	pCi/g
SED	CR31-006	19-Jul-05	747595.098	2086246.573	0.5	2	Vanadium	47	-	46.83	7150	mg/kg
SED	CR31-006	19-Jul-05	747595.098	2086246.573	0.5	2	Zinc	110	-	104.4	307000	mg/kg
SED	CR31-007	19-Jul-05	747623.150	2086198.663	0	0.5	Acenaphthene	320	31	-	40800000	ug/kg
SED	CR31-007	19-Jul-05	747623.150	2086198.663	0	0.5	Aluminum	23000	-	15713.07	228000	mg/kg
SED	CR31-007	19-Jul-05	747623.150	2086198.663	0	0.5	Anthracene	350	31	-	204000000	ug/kg
SED	CR31-007	19-Jul-05	747623.150	2086198.663	0	0.5	Arsenic	8.9	-	7.24	22.2	mg/kg
SED	CR31-007	19-Jul-05	747623.150	2086198.663	0	0.5	Barium	250	-	188.17	26400	mg/kg
SED	CR31-007	19-Jul-05	747623.150	2086198.663	0	0.5	Benzo(a)anthracene	69	36	-	34900	ug/kg
SED	CR31-007	19-Jul-05	747623.150	2086198.663	0	0.5	Benzo(a)pyrene	66	36	-	3490	ug/kg
SED	CR31-007	19-Jul-05	747623.150	2086198.663	0	0.5	Chrysene	65	49	-	3490000	ug/kg
SED	CR31-007	19-Jul-05	747623.150	2086198.663	0	0.5	Cobalt	13	-	12.3	1550	mg/kg
SED	CR31-007	19-Jul-05	747623.150	2086198.663	0	0.5	Fluoranthene	120	66	-	27200000	ug/kg
SED	CR31-007	19-Jul-05	747623.150	2086198.663	0	0.5	Indeno(1,2,3-cd)pyrene	340	40	-	34900	ug/kg
SED	CR31-007	19-Jul-05	747623.150	2086198.663	0	0.5	Iron	29000	-	21379.01	307000	mg/kg
SED	CR31-007	19-Jul-05	747623.150	2086198.663	0	0.5	Manganese	970	-	659.22	3480	mg/kg

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
SED	CR31-007	19-Jul-05	747623.150	2086198.663	0	0.5	Nickel	21	-	17.89	20400	mg/kg
SED	CR31-007	19-Jul-05	747623.150	2086198.663	0	0.5	Vanadium	47	-	46.83	7150	mg/kg
SED	CR31-008	20-Jul-05	747628.949	2086326.739	0	0.5	Acenaphthene	74	36	-	40800000	ug/kg
SED	CR31-008	20-Jul-05	747628.949	2086326.739	0	0.5	Aluminum	28000	-	15713.07	228000	mg/kg
SED	CR31-008	20-Jul-05	747628.949	2086326.739	0	0.5	Anthracene	90	36	-	204000000	ug/kg
SED	CR31-008	20-Jul-05	747628.949	2086326.739	0	0.5	Aroclor-1254	94	14	-	12400	ug/kg
SED	CR31-008	20-Jul-05	747628.949	2086326.739	0	0.5	Barium	280	-	188.17	26400	mg/kg
SED	CR31-008	20-Jul-05	747628.949	2086326.739	0	0.5	Benzo(a)anthracene	140	42	-	34900	ug/kg
SED	CR31-008	20-Jul-05	747628.949	2086326.739	0	0.5	Benzo(b)fluoranthene	180	110	-	34900	ug/kg
SED	CR31-008	20-Jul-05	747628.949	2086326.739	0	0.5	Chromium	25	-	23.23	268	mg/kg
SED	CR31-008	20-Jul-05	747628.949	2086326.739	0	0.5	Chrysene	130	57	-	3490000	ug/kg
SED	CR31-008	20-Jul-05	747628.949	2086326.739	0	0.5	Copper	28	-	27.27	40900	mg/kg
SED	CR31-008	20-Jul-05	747628.949	2086326.739	0	0.5	Fluoranthene	330	76	-	27200000	ug/kg
SED	CR31-008	20-Jul-05	747628.949	2086326.739	0	0.5	Iron	25000	-	21379.01	307000	mg/kg
SED	CR31-008	20-Jul-05	747628.949	2086326.739	0	0.5	Nickel	21	-	17.89	20400	mg/kg
SED	CR31-008	20-Jul-05	747628.949	2086326.739	0	0.5	Pyrene	310	270	-	22100000	ug/kg
SED	CR31-008	20-Jul-05	747628.949	2086326.739	0	0.5	Uranium-235	0.257	-	0.15	8	pCi/g
SED	CR31-008	20-Jul-05	747628.949	2086326.739	0	0.5	Zinc	110	-	104.4	307000	mg/kg
SED	SED509	09-Nov-92	747611.000	2086226.250	0	0.83	Barium	262	-	188.17	26400	mg/kg
SED	SED509	09-Nov-92	747611.000	2086226.250	0	0.83	Copper	27.4	-	27.27	40900	mg/kg
SED	SED509	09-Nov-92	747611.000	2086226.250	0	0.83	Iron	23500	-	21379.01	307000	mg/kg
SED	SED509	09-Nov-92	747611.000	2086226.250	0	0.83	Mercury	1.3	-	0.34	25200	mg/kg
SED	SED509	09-Nov-92	747611.000	2086226.250	0	0.83	Toluene	520	5	-	31300000	ug/kg
SED	SED509	09-Nov-92	747611.000	2086226.250	0	0.83	Zinc	106	-	104.4	307000	mg/kg
SED	SED509	09-Nov-92	747611.000	2086226.250	0.5	1	Plutonium-239/240	1.4	-	1.35	50	pCi/g
SED	SED510	09-Nov-92	747647.930	2086293.000	0	0.92	Barium	208	-	188.17	26400	mg/kg
SED	SED510	09-Nov-92	747647.930	2086293.000	0	0.92	Mercury	1.6	-	0.34	25200	mg/kg
SED	SED510	09-Nov-92	747647.930	2086293.000	0	0.92	Nickel	19.1	-	17.89	20400	mg/kg
SED	SED510	09-Nov-92	747647.930	2086293.000	0	0.92	Toluene	380	5	-	31300000	ug/kg
Pond C-2												
SED	DD31-000	12-Jul-05	747619.303	2088681.197	0	0.5	Americium-241	0.727	-	0.27	76	pCi/g
SED	DD31-000	12-Jul-05	747619.303	2088681.197	0	0.5	Arsenic	7.7	-	7.24	22.2	mg/kg

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
SED	DD31-000	12-Jul-05	747619.303	2088681.197	0	0.5	Iron	29000	-	21379.01	307000	mg/kg
SED	DD31-000	12-Jul-05	747619.303	2088681.197	0	0.5	Nickel	18	-	17.89	20400	mg/kg
SED	DD31-000	12-Jul-05	747619.303	2088681.197	0	0.5	Plutonium-239/240	2.96	-	1.35	50	pCi/g
SED	DE30-000	12-Jul-05	747548.320	2088808.071	0	0.5	Americium-241	0.287	-	0.27	76	pCi/g
SED	DE30-000	12-Jul-05	747548.320	2088808.071	0	0.5	Plutonium-239/240	1.91	-	1.35	50	pCi/g
SED	DE30-000	12-Jul-05	747548.320	2088808.071	0.5	2.5	Americium-241	0.305	-	0.27	76	pCi/g
SED	DE30-000	12-Jul-05	747548.320	2088808.071	0.5	2.5	Plutonium-239/240	1.64	-	1.35	50	pCi/g
SED	DE31-000	12-Jul-05	747684.510	2088966.097	0	0.5	Americium-241	0.272	-	0.27	76	pCi/g
SED	DE31-000	12-Jul-05	747684.510	2088966.097	0	0.5	Nickel	18	-	17.89	20400	mg/kg
SED	DE31-000	12-Jul-05	747684.510	2088966.097	0	0.5	Uranium-235	0.219	-	0.15	8	pCi/g
SED	DE31-000	12-Jul-05	747684.510	2088966.097	0.5	1.7	Aluminum	21000	-	15713.07	228000	mg/kg
SED	DE31-000	12-Jul-05	747684.510	2088966.097	0.5	1.7	Nickel	20	-	17.89	20400	mg/kg
SED	DF29-000	12-Jul-05	747385.391	2088944.987	0	0.5	Aluminum	22000	-	15713.07	228000	mg/kg
SED	DF29-000	12-Jul-05	747385.391	2088944.987	0	0.5	Chromium	25	-	23.23	268	mg/kg
SED	DF29-000	12-Jul-05	747385.391	2088944.987	0	0.5	Nickel	21	-	17.89	20400	mg/kg
SED	DF29-000	12-Jul-05	747385.391	2088944.987	0	0.5	Plutonium-239/240	1.66	-	1.35	50	pCi/g
SED	DF29-000	12-Jul-05	747385.391	2088944.987	0	0.5	Vanadium	50	-	46.83	7150	mg/kg
SED	DF30-000	12-Jul-05	747515.288	2088895.438	0	0.5	Aluminum	22000	-	15713.07	228000	mg/kg
SED	DF30-000	12-Jul-05	747515.288	2088895.438	0	0.5	Barium	220	-	188.17	26400	mg/kg
SED	DF30-000	12-Jul-05	747515.288	2088895.438	0	0.5	Iron	22000	-	21379.01	307000	mg/kg
SED	DF30-000	12-Jul-05	747515.288	2088895.438	0	0.5	Nickel	19	-	17.89	20400	mg/kg
SED	DF30-000	12-Jul-05	747515.288	2088895.438	0	0.5	Zinc	140	-	104.4	307000	mg/kg
SED	SED511	11-Nov-92	747717.120	2088621.000	0	0.42	Americium-241	0.32	-	0.27	76	pCi/g
SED	SED511	11-Nov-92	747717.120	2088621.000	0	0.42	Mercury	0.65	-	0.34	25200	mg/kg
SED	SED511	11-Nov-92	747717.120	2088621.000	0	0.42	Plutonium-239/240	1.5	-	1.35	50	pCi/g
SED	SED511	11-Nov-92	747717.120	2088621.000	0	0.42	Toluene	410	5	-	31300000	ug/kg
SED	SED512	11-Nov-92	747570.560	2088928.000	0	0.33	Americium-241	0.42	-	0.27	76	pCi/g
SED	SED512	11-Nov-92	747570.560	2088928.000	0	0.33	Mercury	0.65	-	0.34	25200	mg/kg
SED	SED512	11-Nov-92	747570.560	2088928.000	0	0.33	Nickel	18.1	-	17.89	20400	mg/kg
SED	SED512	11-Nov-92	747570.560	2088928.000	0	0.33	Plutonium-239/240	2.1	-	1.35	50	pCi/g
SED	SED512	11-Nov-92	747570.560	2088928.000	0	0.33	Toluene	340	5	-	31300000	ug/kg
SED	SED512	11-Nov-92	747570.560	2088928.000	0	0.33	Zinc	150	-	104.4	307000	mg/kg

Media	Location Code	Sample Date	Actual Northing	Actual Easting	Starting Depth (ft)	Ending Depth (ft)	Analyte	Result	RL or MDL	Back-ground	WRW AL	Unit
SED	SED513	11-Nov-92	747499.250	2088999.870	0	0.42	Americium-241	0.34	-	0.27	76	pCi/g
SED	SED513	11-Nov-92	747499.250	2088999.870	0	0.42	Arsenic	9.8	-	7.24	22.2	mg/kg
SED	SED513	11-Nov-92	747499.250	2088999.870	0	0.42	Barium	226	-	188.17	26400	mg/kg
SED	SED513	11-Nov-92	747499.250	2088999.870	0	0.42	Copper	35.9	-	27.27	40900	mg/kg
SED	SED513	11-Nov-92	747499.250	2088999.870	0	0.42	Mercury	0.68	-	0.34	25200	mg/kg
SED	SED513	11-Nov-92	747499.250	2088999.870	0	0.42	Plutonium-239/240	2.4	-	1.35	50	pCi/g
SED	SED513	11-Nov-92	747499.250	2088999.870	0	0.42	Toluene	370	5	-	31300000	ug/kg
SED	SED513	11-Nov-92	747499.250	2088999.870	0	0.42	Zinc	201	-	104.4	307000	mg/kg

Table 4
Locations With All Non-Detected Analytes

Pond	Location	Collection Date	Medium	Northing	Easting	Starting Depth (ft bgs)	Ending Depth (ft bgs)	Analytes
Pond A-1	SED60092	Jun-94	Sed	752021.870	2086548.620	0	0.5	PCBs
Pond A-1	SED60392	Jun-94	Sed	752038.370	2086502.500	0	0.5	PCBs
Pond A-2	SED60792	Jun-94	Sed	752173.870	2087291.120	0	0.5	PCBs
Pond A-2	SED61092	Jun-94	Sed	752377.930	2088256.750	0	0.5	PCBs
Pond A-3	SED61192	Jun-94	Sed	752367.120	2088213.000	0	0.5	PCBs
Pond A-3	SED61292	Jun-94	Sed	752289.250	2088051.750	0	0.5	PCBs
Pond A-3	SED61392	Jun-94	Sed	752518.750	2088293.870	0	0.5	PCBs
Pond A-4	SED61592	Jul-94	Sed	752864.120	2089474.370	0	0.5	PCBs
Pond A-4	SED61692	Jul-94	Sed	752957.620	2089755.750	0	0.5	PCBs
Pond A-4	SED61792	Jul-94	Sed	752938.430	2089465.500	0	0.5	PCBs
Pond A-4	SED61892	Jul-94	Sed	753000.430	2089699.500	0	0.5	PCBs
Pond B-4	SED63692	Jun-94	Sed	750932.310	2088212.870	0	0.5	PCBs
Pond B-4	SED63792	Jun-94	Sed	750880.810	2088254.750	0	0.5	PCBs
Pond B-4	SED63892	Jun-94	Sed	750889.250	2088223.370	0	0.5	PCBs
Pond B-5	SED64092	Jun-94	Sed	751734.180	2089080.370	0	0.5	PCBs
Pond B-5	SED64192	Jun-94	Sed	751923.500	2089540.120	0	0.5	PCBs
Pond B-5	SED64292	Jun-94	Sed	752081.620	2089465.500	0	0.5	PCBs
Pond B-5	SED64392	Jun-94	Sed	751994.310	2089520.500	0	0.5	PCBs
Pond B-5	SED64492	Jun-94	Sed	751639.250	2088979.870	0	0.5	PCBs

sampling. By agreement of the RFCA parties, sediment results are compared to RFCA WRW soil ALs (DOE et al. 2003) except for dioxin and furan congeners, which do not have WRW soil ALs. For this report, surface sediment is considered from 0.0 to 1.0 feet.

In accordance with the IABZSAP (DOE 2004b) DQOs, only results greater than background means plus two standard deviations (for inorganics) or reporting limits (RLs) (for organics) are presented in tables and figures. Nondetected analytes are not presented on the figures or in tables. Sampling locations and dates with all results less than RLs or background means plus two standard deviations are listed in Table 4. The data, retrieved from the RFETS Soil Water Database (SWD) on August 31, 2005, are provided on the enclosed compact disc (CD). The CD contains standardized real and quality control (QC) data, including Chemical Abstracts Service (CAS) numbers, analyte names, and units.

2.2.1 Pond A-1

Eight surface sediment and seven subsurface sediment samples were collected at Pond A-1. In addition, three subsurface soil samples were collected beneath the sediment column at one location. Samples were typically analyzed for radionuclides, metals, PCBs, SVOCs, and VOCs, but four surface sediment samples were only analyzed for radionuclides and PCBs, while one subsurface sediment and all three subsurface soil samples were analyzed for dioxins and furans in addition to radionuclides, metals, SVOCs, and VOCs. Results are summarized in Table 3 and shown on Figure 2. All analytical results for sediment and soil samples from Pond A-1 were less than applicable WRW soil ALs.

Americium-241 and plutonium-239/240 activities exceeded background levels in more than 85% of the surface and subsurface sediment samples analyzed. The maximum observed plutonium activities were 22.4 pCi/g in surface sediment and 36.2 pCi/g in subsurface sediment. These levels approach the WRW soil AL of 50 pCi/g. Observed americium-241 activities were lower, with up to 6.89 pCi/g in surface sediment and 13.23 pCi/g in subsurface sediment. The only radionuclide detected above background levels in subsurface soil was total uranium.

Concentrations of aluminum, arsenic, barium, chromium, iron, nickel, selenium, vanadium, and zinc exceeded background ranges in at least half of all surface sediment samples collected, but only aluminum and arsenic were detected at concentrations greater than one-tenth of the WRW soil AL. In subsurface sediment, barium, copper, mercury and zinc exceeded background in at least half of all samples analyzed, and in subsurface soil, only cadmium and iron exceeded background levels in at least half of samples.

Aluminum and arsenic concentrations were similar to those in surface sediment and exceeded 10% of the WRW soil AL.

All samples associated with Pond A-1 were analyzed for PCBs; however PCBs were only detected in subsurface sediment samples. Aroclor-1254 was detected in five of seven subsurface sediment samples that were analyzed, and Aroclor-1260 was detected in one sample. The maximum concentration of Aroclor-1254 was less than half of the WRW soil AL.

All of the organics detected in surface sediment were polyaromatic hydrocarbons (PAHs), while all of the organics detected in subsurface soil were VOCs. Numerous SVOCs were detected in subsurface sediment, but detections of individual compounds were sporadic. The PAHs detected in surface and subsurface sediment included benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene. All detected concentrations were at least two orders of magnitude lower than WRW soil ALs. Dioxins and furans were detected in subsurface sediment and subsurface soil samples. There are no WRW soil ALs for these compounds.

2.2.2 Pond A-2

Nine surface sediment, four subsurface sediment, and two subsurface soil samples were collected at Pond A-2. Samples were typically analyzed for radionuclides, metals, PCBs, and SVOCs. Five samples collected in 2004 were also analyzed for VOCs and dioxins/furans. Results are summarized in Table 3 and shown on Figure 3. All analytical results for sediment and soil samples from Pond A-2 were less than WRW soil ALs.

Americium-241, plutonium-239/240, and uranium-238 were present at activities slightly exceeding background in a majority of surface and subsurface sediment samples and in one of the two subsurface soil samples that were collected beneath the sediment column at one location. The maximum detected plutonium-239 activities in surface and subsurface sediment were greater than 10% of the WRW soil AL.

A number of metals were detected sporadically at concentrations exceeding background levels in surface sediment samples but no single metal was present above background in more than one third of the samples. The metals exceeding background included aluminum, arsenic, barium, chromium, copper, iron, nickel, vanadium, and zinc. The only metals detected in surface soil at concentrations exceeding one-tenth of the WRW soil AL were aluminum and arsenic.

Metals were more frequently detected in subsurface sediment at concentrations exceeding background, with aluminum, arsenic, barium, chromium, copper, iron, vanadium, and zinc exceeding background levels in three quarters of the subsurface sediment samples analyzed. Maximum detected concentrations for aluminum, arsenic, chromium, and iron were greater than one-tenth the applicable WRW soil ALs. There were no metals detected at greater than background levels in the two subsurface soil samples collected beneath the sediment column in Pond A-2.

One or more groups of organic analytes were analyzed in each of eight surface sediment, four subsurface sediment, and two subsurface soil samples. The only VOCs detected in any of the samples were 2-butanone, acetone, methylene chloride, and toluene, which were present at very low levels. The most frequently detected SVOC was bis(2-ethylhexyl)phthalate. Several PAHs were sporadically detected, including benzo(a)pyrene, but concentrations were at least two orders of magnitude less than WRW soil ALs for all sediment and soil samples analyzed. PCBs were analyzed in all except one of the samples associated with Pond A-2 and were never detected. Samples collected at several depths from a single location were analyzed for dioxins and furans. Dioxins detected included 1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin, octa-8-chlorodibenzo-p-dioxin. There are no WRW soil ALs for these compounds.

2.2.3 Pond A-3

Nine surface and three subsurface sediment samples were collected at Pond A-3. No soil samples were collected. Three subsurface and one surface sediment sample were analyzed for radionuclides, metals, PCBs, pesticides, SVOCs, and VOCs. Four surface sediment samples were analyzed only for PCBs, and four other surface sediment samples were analyzed for radionuclides and metals. Results are summarized in Table 3 and shown in Figure 4. All analytical results for sediment samples from Pond A-3 were less than WRW soil ALs.

Americium-241 was detected in both surface and subsurface sediment at activities slightly exceeding background. Plutonium-239/240 activities did not exceed background levels in surface sediment, but slightly exceeded background in 25 percent of the subsurface sediment samples analyzed.

Aluminum, arsenic, nickel, and zinc were detected at levels slightly greater than background levels in at least half of all surface sediment samples. Of these, only aluminum and arsenic had maximum detected concentrations exceeding 10 percent of the applicable WRW soil ALs. Metal detections exceeding background concentrations were more numerous in subsurface sediment, with aluminum, arsenic, chromium, cobalt, iron, nickel, vanadium, and zinc being detected at concentrations greater than background levels in at least half of the samples analyzed.

PCBs were analyzed in five surface sediment samples and three subsurface sediment sample but were never detected. Pesticides, SVOCs, and VOCs were analyzed in one surface sediment and three subsurface sediment samples but the only analyte from these groups that was detected was toluene in subsurface sediment at a relatively low concentration.

2.2.4 Pond A-4

Thirteen surface sediment and three subsurface sediment samples were collected at Pond A-4. No soil samples were collected. Four of the surface sediment samples were analyzed for PCBs only, and four others were analyzed for radionuclides, metals, PCBs, pesticides, SVOCs, and VOCs. The remaining five surface sediment samples and 3 subsurface sediment samples were analyzed for radionuclides and metals. Results are summarized in Table 3 and shown on Figure 5.

All analytical results for sediment samples from Pond A-4 were less than WRW soil ALs. Radionuclides were analyzed in nine surface sediment and three subsurface sediment samples, but were never detected at activities exceeding background levels.

Several metals were detected in surface sediment at concentrations slightly exceeding background. Aluminum concentrations exceeded background in two-thirds of all surface sediment samples, and antimony, barium, nickel, selenium, and zinc exceeded their background levels in one-third of all surface sediment samples. The maximum detected concentrations of aluminum, antimony, arsenic, and chromium in surface sediment exceeded 10% of the applicable WRW soil ALs for those metals. Metal results for subsurface sediments were very similar to the results for surface sediments. Aluminum, arsenic, barium, chromium, iron, nickel, and vanadium levels in subsurface sediment samples exceeded background levels in one-third or more of the samples analyzed. The maximum detected concentrations of aluminum, arsenic, and iron in subsurface sediment exceeded 10% of the applicable WRW soil ALs.

Four surface sediment samples from Pond A-4 were analyzed for organics, including PCBs, pesticides, SVOCs, and VOCs, and four additional subsurface soil samples were analyzed for PCBs alone. The only organics that were detected in any of the samples were bis(2-ethylhexyl)phthalate and toluene. These were detected at concentrations slightly exceeding the detection limit and three or more orders of magnitude below the applicable WRW soil ALs.

2.2.5 Pond A-5

Ten surface and 3 subsurface sediment samples were collected at Pond A-5. In addition, 8 surface soil samples were collected from an area adjacent to the pond's northeastern side. Four surface and two subsurface sediment samples were analyzed for radionuclides, metals, PCBs, pesticides, SVOCs, and VOCs. Three surface sediment samples and one subsurface sediment sample were analyzed for radionuclides and metals, and three surface sediment samples were analyzed for radionuclides only. Eight surface soil samples were analyzed for metals and VOCs. Two of the eight surface soil samples were also analyzed for radionuclides. Results are summarized in Table 3 and shown on Figure 6. All analytical results for sediment and soil samples from Pond A-5 were less than WRW soil ALs.

Radionuclides were analyzed in all surface and subsurface sediment samples collected from Pond A-5, but were not detected above background levels. Both americium-241 and plutonium-239/240 were detected in surface soil samples collected adjacent to Pond A-5 at activities slightly exceeding background but well below the WRW soil ALs.

Aluminum, barium, cobalt, iron, nickel, and zinc were detected in surface sediment at concentrations slightly exceeding background but well below WRW soil ALs. Aluminum was the only metal that exceeded background in subsurface sediment. Metals detected slightly above background levels in surface soil in an area adjacent to Pond A-5 included cadmium, iron,

lithium, nickel, plutonium-239/240, and strontium. All concentrations were at least an order of magnitude less than applicable WRW soil ALs. Although SVOCs, PCBs, and pesticides were analyzed in four surface and two subsurface sediment samples from Pond A-5, none of these analytes were detected in any of the samples. The only VOCs that were detected in surface or subsurface sediment were acetone and toluene at very low concentrations. VOCs were analyzed but not detected in any of the surface soil samples collected adjacent to Pond A-5.

2.2.6 Pond B-4

Eleven surface and 16 subsurface sediment samples were collected at Pond B-4. No soil samples were collected. Six surface and eight subsurface samples were analyzed for radionuclides, metals, PCBs, and SVOCs. The remaining five surface sediment samples were analyzed for PCBs only. The remaining eight subsurface sediment samples were analyzed for radionuclides, metals, PCBs, pesticides, SVOCs, and VOCs. Results are summarized in Table 3 and shown on Figure 7.

Both americium-241 and plutonium-239/240 activities exceeded background in more than half of subsurface sediment samples analyzed. Americium-241 activities also exceeded background in more that half of surface sediment samples, but plutonium-239/240 was only present in 1 out of 5 samples analyzed at activities greater than background. The maximum observed activity of americium-241 was 56.6 pCi/g, which is below the 76 pCi/g WRW soil AL. The maximum observed activity of plutonium-239/240 in subsurface sediment was 217 pCi/g, at 3 to 3.9 ft, which exceeds the WRW soil AL of 50 pCi/g at sampling location DB47-004. Sample depth at this location was initially 2.5 to 3.9 ft. This location was resampled in August 2005 to determine radionuclide activities in the top 3 ft of sediment. Location number DB47-006 represents the 1 to 3 ft interval of sediment for both location numbers. Plutonium-239/240 activities are less than the WRW soil ALs in this interval. Both samples are included on Figure 8 and in Table 3. This was the only WRW soil AL exceedance in Pond B-4 and the only WRW soil AL exceedance identified in the ponds covered in this Data Summary Report. Uranium isotopes were present at greater-than-background levels in only 12% of subsurface sediment samples and in none of the surface sediment samples.

Metals that exceeded background in at least 60% of the surface sediment samples included arsenic, barium, nickel, and zinc. Zinc exceeded background in all of the surface sediment samples analyzed. Metals concentrations were less elevated relative to background in subsurface sediments. Zinc was the only metal that was detected above background levels in more than half of the samples analyzed. None of the metals results for Pond B-4 exceeded the WRW soil AL, but maximum detected results for arsenic, chromium, lead, silver, and aluminum exceeded 10% of the applicable WRW soil ALs.

One pesticide (Lindane), and one VOC (toluene), were detected at low concentrations in subsurface sediment. Aroclor-1254 was detected in 10% of all surface sediment samples and 41% of all subsurface sediment samples. The remaining organics detected in surface and subsurface sediment were SVOCs, principally bis(2-ethylhexyl)phthalate, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene,

chrysene, fluoranthene, and pyrene. The PAHs were somewhat more frequently detected in subsurface than in surface sediment. All concentrations of organics were well below the WRW soil ALs. The only organic analytes detected at levels greater than 10% of the WRW soil AL were Aroclor-1254 and benzo(a)pyrene.

2.2.7 Pond B-5

Eighteen surface and two subsurface sediment samples were collected at Pond B-5. No soil samples were collected. Five surface and two subsurface sediment samples were analyzed for radionuclides and metals. Two surface samples were analyzed for metals and VOCs; five surface samples were analyzed for radionuclides, metals, VOCs, SVOCs, PCBs, and pesticides; five surface samples were analyzed for PCBs; and one surface sample was analyzed for pesticides. Results are summarized in Table 3 and shown on Figure 8. All analytical results for sediment samples from Pond B-5 were less than WRW soil ALs.

Americium-241 was detected in two surface sediment samples, at activities slightly exceeding background. Americium-241 was not detected above background levels in subsurface sediment, and plutonium-239/240 was not detected above background levels in surface and subsurface sediment. Uranium-235 was only detected above background levels in one subsurface sediment sample.

Several metals were detected above background levels in surface sediment samples, but only aluminum was detected at levels greater than background levels in more than half of the surface sediment samples. All of the metal concentrations were significantly below the WRW soil ALs. No metals were detected above background in subsurface sediment samples.

Carbon tetrachloride, methylene chloride, and toluene were detected above RLs in some surface sediment samples but at levels significantly below the WRW soil ALs. SVOCs, PCBs, and pesticides were not detected above RLs in any of the surface sediment samples.

2.2.8 Pond C-1

Thirteen surface and six subsurface sediment samples were collected at Pond C-1. No soil samples were collected. Five surface and four subsurface sediment samples were analyzed for radionuclides and metals. One surface sediment sample was analyzed for pesticides; one surface sediment sample was analyzed for radionuclides, metals, SVOCs and PCBs; one surface sediment sample was analyzed for radionuclides, metals, VOCs, SVOCs, PCBs and pesticides; two surface sediment samples were analyzed for radionuclides; and three surface sediment samples were analyzed for radionuclides, metals and PCBs. One subsurface sediment sample was analyzed for radionuclides, metals and PCBs; and one subsurface sediment sample was analyzed for radionuclides, metals, SVOCs and PCBs. Results are summarized in Table 3 and shown on Figure 9. All analytical results for sediment samples from Pond C-1 were less than WRW soil ALs.

Americium-241 and plutonium-239/240 were detected above background in one surface sediment sample and in one subsurface sediment sample, at activities significantly less than WRW soil ALs. The uranium isotopes (-234, -235 and -238) were detected above background in less than half of the surface sediment samples analyzed for radionuclides, and activities were significantly less than WRW soil ALs. The uranium isotopes were detected above background in more than half of the subsurface sediment samples analyzed for radionuclides, and activities were significantly less than WRW soil ALs.

Several metals were detected above background levels in surface and subsurface sediment samples, and most of the metals were detected in more than half of the samples analyzed for metals. The maximum metal concentrations were significantly less than the WRW soil ALs. Several SVOCs were detected above RLs in surface sediment samples, but most of the SVOCs were detected in less than half of the samples analyzed for SVOCs. Also, concentrations greater than RLs were significantly less than WRW soil ALs. Toluene, a VOC, was detected above the RL in two surface sediment samples at concentrations significantly less than the WRW soil AL. PCBs were detected above the RL in one surface sediment sample at a concentration significantly less than the WRW soil AL. No pesticides were detected above RLs in surface sediment samples. Some SVOCs were detected above RLs in subsurface sediment samples but at concentrations significantly less than WRW soil ALs. No VOCs were detected above RLs in subsurface sediment samples. PCBs were detected in one subsurface sediment sample at a concentration significantly less than the WRW soil AL.

2.2.9 Pond C-2

Ten surface and two subsurface sediment samples were collected at Pond C-2. No soil samples were collected. Six surface and two subsurface sediment samples were analyzed for radionuclides and metals. One surface sediment sample was analyzed for radionuclides, metals, and VOCs; one surface sediment sample was analyzed for PCBs and pesticides; and one surface sediment sample was analyzed for radionuclides, metals, VOCs, SVOCs, PCBs and pesticides. Results are summarized in Table 3 and shown on Figure 10. All analytical results for sediment samples from Pond C-2 were less than WRW soil ALs.

Americium-241 and plutonium-239/240 were detected above background in six surface sediment samples and in one subsurface sediment sample, at activities significantly less than WRW soil ALs. Uranium-235 was detected above background in one surface sediment sample, and the detected activity was significantly less than the WRW soil AL. Uranium isotopes were not detected above background in any of the other surface or subsurface sediment samples analyzed for radionuclides.

Several metals were detected above background levels in surface sediment samples; however, most of the metals were detected in less than half of the samples analyzed for metals. The maximum metal concentrations were significantly less than the WRW soil ALs. Aluminum was detected above background in one subsurface sediment sample, and the detected concentration was significantly less than the WRW soil AL. No other metals were detected above background in subsurface sediment samples analyzed for metals.

No SVOCs, PCBs, or pesticides were detected above RLs in any of the surface sediment samples analyzed for these contaminants. Toluene was detected above the RL in the three surface sediment samples analyzed for VOCs; however, detected concentrations were significantly less than the WRW soil AL. No other VOCs were detected in the three samples analyzed for VOCs.

2.3 Sums of Ratios

In accordance with IABZSAP (DOE 2004b) DQOs, RFCA sums of ratios (SORs) were calculated for the IHSS Group NE-1 sampling locations based on the analytical data. Radionuclide SOR calculations include americium-241, plutonium-239/240, uranium-234, uranium-235, and uranium-238 when results were greater than background means plus two standard deviations. Table 5 presents the radionuclide SORs by pond. All SORs for radionuclides in surface (0 to 3 feet) soil were less than 1.

Table 5
RFCA Radionuclide SORs

Location	Sample Starting Depth (ft)	Sample Ending Depth (ft)	SOR
Pond A-1			
CR53-000	0	0.5	0.04
CS53-000	1.5	3	0.27
CS53-001	0	0.5	0.10
CS53-002	0	0.5	0.04
CS53-002	0.5	2.5	0.12
CS53-003	0	0.5	0.28
SED60092	0	0.5	0.08
SED60092	0	1.5	0.47
SED60192	0	0.5	0.02
SED60192	0	1.17	0.25
SED60292	0	0.5	0.04
SED60292	0	1.42	0.49
SED60392	0	0.5	0.04
SED60392	0	1.25	0.37
Pond A-2			
CV54-000	0	0.5	0.03
CW53-000	0	0.5	0.07
CW53-000	0.5	1.8	0.14
CW54-000	0	0.5	0.06
CW54-000	0.5	2.5	0.06
CW54-000	2.5	4.5	0.06
CW54-000	4.5	6.5	0.05
CW54-002	0	0.5	0.10
SED60692	0	0.5	0.13
SED60792	0	0.5	0.10
SED60792	0	1	0.07

Location	Sample Starting Depth (ft)	Sample Ending Depth (ft)	SOR
SED60892	0	0.5	0.06
SED60892	0	1.33	0.02
Pond A-3			
DA54-000	0	0.8	0.005
DA55-001	0	0.9	0.006
SED61092	0	2	0.026
SED61192	0	1.33	0.004
SED61292	0	1	0.006
Pond A-4	**N/A**	**N/A**	**N/A**
Pond A-5			
A50102	0.08	0.17	0.002
A50102	2	6	0.002
A50202	0.08	0.17	0.004
A50202	2	6	0.001
Pond B-4			
DB47-002	0	0.5	0.01
DB47-002	0.5	2.5	0.57
DB47-004	0	0.5	0.03
DB47-004	0.5	2.5	0.10
DB47-006	1	3	0.005
SED63592	0	2	0.10
SED63592	0	3.17	0.14
SED63692	0	1.33	0.01
SED63792	0	2	0.01
SED63792	0	2.5	0.12
SED63892	0	2	0.01
SED63892	0	2.75	0.31
SED63992	0	1.67	0.01
Pond B-5			
DF51-000	0.5	2.5	0.030
DG52-000	0	0.8	0.004
SED64392	0	1	0.004
Pond C-1			
CR31-000	0	0.5	0.10
CR31-000	0.5	1.5	0.14
CR31-000	1.5	2.5	0.11
CR31-001	0	0.5	0.12
CR31-001	0.5	1.5	0.13
CR31-001	1.5	2	0.09
CR31-002	0	0.5	0.03
CR31-003	0	0.5	0.13
CR31-005	0	0.5	0.05
CR31-006	0	0.5	0.02
CR31-006	0.5	2	0.05
CR31-008	0	0.5	0.03
SED509	0.5	1	0.01
Pond C-2			

Location	Sample Starting Depth (ft)	Sample Ending Depth (ft)	SOR
DD31-000	0	0.5	0.04
DE30-000	0	0.5	0.02
DE30-000	0.5	2.5	0.02
DE31-000	0	0.5	0.03
DF29-000	0	0.5	0.01
SED511	0	0.42	0.02
SED512	0	0.33	0.02
SED513	0	0.42	0.03

Nonradionuclide SORs, shown in Table 6, were calculated for all locations with analytical results greater than 10 percent of the WRW soil ALs, where aluminum, arsenic, iron, manganese, and PAHs are exempted from the 10 percent criterion and the calculation. These analytes are exempted from the calculation because they are ubiquitous across the Site. All nonradionuclide SORs were less than 1.

Table 6
RFCA Nonradionuclide SORs

Location Code	Sample Starting Depth (ft)	Sample Ending Depth (ft)	SOR
Pond A-1	N/A	N/A	N/A
Pond A-2	N/A	N/A	N/A
Pond A-3	N/A	N/A	N/A
Pond A-4			
DG57-000	0	0.5	0.10
SED61692	0	0.33	0.10
Pond A-5	N/A	N/A	N/A
Pond B-4			
DB47-000	0	0.5	0.11
DB47-004	0	0.5	0.10
Pond B-5	N/A	N/A	N/A
Pond C-1			
CR31-000	0	0.5	0.13
CR31-001	0	0.5	0.17
CR31-002	0	0.5	0.17
CR31-003	0	0.5	0.17
CR31-005	0	0.5	0.11
CR31-006	0	0.5	0.11
Pond C-2	N/A	N/A	N/A

2.4 Summary Statistics

Summary statistics for analytes detected at concentrations greater than background means plus two standard deviations or RLs were calculated by analyte and pond for IHSS Group NE-1 surface and subsurface sampling locations as presented in Tables 7 through 15. For radionuclides and metals, only detections greater than background means plus two standard deviations were used to calculate the detection frequency and average concentration. For other analytes, all detections greater than the RL are included.

Table 7
Pond A-1 Summary Statistics

Analyte	No. of Samples	Detection Frequency	Average Result	Maximum Result	RL	Background	WRW soil AL	Unit
Surface Sediment								
Aluminum	4	75.0%	24333.333	25000.000	N/A	15713.070	228000.0	mg/kg
Americium-241	7	100.0%	2.000	6.890	N/A	0.270	76.0	pCi/g
Arsenic	4	75.0%	8.700	9.300	N/A	7.240	22.2	mg/kg
Barium	4	75.0%	213.333	220.000	N/A	188.170	26400.0	mg/kg
Benzo(a)anthracene	4	100.0%	90.000	120.000	28.250	N/A	34900.0	ug/kg
Benzo(a)pyrene	4	75.0%	114.333	150.000	28.000	N/A	3490.0	ug/kg
Benzo(b)fluoranthene	4	100.0%	128.250	180.000	75.000	N/A	34900.0	ug/kg
Benzo(k)fluoranthene	4	75.0%	78.333	100.000	56.000	N/A	349000.0	ug/kg
Chromium	4	50.0%	24.500	25.000	N/A	23.230	268.0	mg/kg
Chrysene	4	100.0%	107.250	150.000	38.250	N/A	3490000.0	ug/kg
Fluoranthene	4	100.0%	215.000	300.000	51.000	N/A	27200000.0	ug/kg
Indeno(1,2,3-cd)pyrene	4	75.0%	67.333	90.000	31.000	N/A	34900.0	ug/kg
Iron	4	75.0%	22666.667	24000.000	N/A	21379.010	307000.0	mg/kg
Nickel	4	75.0%	21.000	22.000	N/A	17.890	20400.0	mg/kg
Plutonium-239/240	8	100.0%	5.882	22.400	N/A	1.350	50.0	pCi/g
Selenium	4	25.0%	1.800	1.800	N/A	1.550	5110.0	mg/kg
Uranium-235	8	12.5%	0.193	0.193	N/A	0.150	8.0	pCi/g
Uranium-238	8	37.5%	4.307	5.352	N/A	3.460	351.0	pCi/g
Vanadium	4	75.0%	50.000	52.000	N/A	46.830	7150.0	mg/kg
Zinc	4	75.0%	130.000	140.000	N/A	104.400	307000.0	mg/kg
Subsurface Sediment								
Acetone	5	20.0%	11.000	11.000	7.200	N/A	102000000.0	ug/kg
Aluminum	7	28.6%	25500.000	29000.000	N/A	15713.070	228000.0	mg/kg
Americium-241	7	85.7%	9.012	13.230	N/A	0.270	76.0	pCi/g
Anthracene	7	14.3%	52.000	52.000	26.000	N/A	204000000.0	ug/kg
Antimony	7	28.6%	30.000	30.400	N/A	13.010	409.0	mg/kg
Aroclor-1254	7	71.4%	1331.000	5200.000	213.360	N/A	12400.0	ug/kg
Aroclor-1260	7	14.3%	150.000	150.000	2.200	N/A	12400.0	ug/kg
Arsenic	7	28.6%	7.600	7.700	N/A	7.240	22.2	mg/kg
Barium	7	57.1%	200.750	230.000	N/A	188.170	26400.0	mg/kg
Benzo(a)anthracene	7	14.3%	190.000	190.000	30.000	N/A	34900.0	ug/kg
Benzo(a)pyrene	7	14.3%	210.000	210.000	30.000	N/A	3490.0	ug/kg
Benzo(b)fluoranthene	7	14.3%	260.000	260.000	80.000	N/A	34900.0	ug/kg

Analyte	No. of Samples	Detection Frequency	Average Result	Maximum Result	RL	Background	WRW soil AL	Unit
Benzo(k)fluoranthene	7	14.3%	120.000	120.000	60.000	N/A	349000.0	ug/kg
bis(2-Ethylhexyl)phthalate	7	14.3%	230.000	230.000	47.000	N/A	1970000.0	ug/kg
Cadmium	7	42.9%	4.567	8.300	N/A	1.880	962.0	mg/kg
Chromium	7	28.6%	29.000	30.000	N/A	23.230	268.0	mg/kg
Chrysene	7	14.3%	220.000	220.000	41.000	N/A	3490000.0	ug/kg
Cobalt	7	14.3%	13.000	13.000	N/A	12.300	1550.0	mg/kg
Copper	7	57.1%	33.075	43.000	N/A	27.270	40900.0	mg/kg
Fluoranthene	7	28.6%	650.000	790.000	357.000	N/A	27200000.0	ug/kg
Indeno(1,2,3-cd)pyrene	7	28.6%	175.000	210.000	33.500	N/A	34900.0	ug/kg
Iron	7	14.3%	23000.000	23000.000	N/A	21379.010	307000.0	mg/kg
Mercury	7	57.1%	0.413	0.470	N/A	0.340	25200.0	mg/kg
Methylene chloride	5	20.0%	3.700	3.700	1.300	N/A	2530000.0	ug/kg
Nickel	7	42.9%	24.133	26.400	N/A	17.890	20400.0	mg/kg
Phenol	7	14.3%	54.000	54.000	53.000	N/A	613000000.0	ug/kg
Plutonium-239/240	7	85.7%	23.345	36.200	N/A	1.350	50.0	pCi/g
Pyrene	7	14.3%	710.000	710.000	660.000	N/A	22100000.0	ug/kg
Selenium	7	14.3%	1.600	1.600	N/A	1.550	5110.0	mg/kg
Toluene	5	80.0%	174.250	280.000	5.000	N/A	31300000.0	ug/kg
Uranium-235	7	14.3%	0.352	0.352	N/A	0.150	8.0	pCi/g
Uranium-238	7	14.3%	4.060	4.060	N/A	3.460	351.0	pCi/g
Vanadium	7	14.3%	57.000	57.000	N/A	46.830	7150.0	mg/kg
Zinc	7	57.1%	119.250	140.000	N/A	104.400	307000.0	mg/kg
1,2,3,4,6,7,8-HpCDF	1	100.0%	29.800	29.800	1.840	N/A	N/A	pg/g
1,2,3,6,7,8-HxCDD	1	100.0%	4.550	4.550	1.840	N/A	N/A	pg/g
1,2,3,7,8,9-HxCDD	1	100.0%	3.290	3.290	1.840	N/A	N/A	pg/g
1,2,3,7,8-PeCDF	1	100.0%	1.970	1.970	1.840	N/A	N/A	pg/g
1234678-HpCDD	1	100.0%	94.600	94.600	1.840	N/A	N/A	pg/g
123478-HxCDF	1	100.0%	3.710	3.710	1.840	N/A	N/A	pg/g
1234789-HpCDF	1	100.0%	2.430	2.430	1.840	N/A	N/A	pg/g
123678-HxCDF	1	100.0%	2.500	2.500	1.840	N/A	N/A	pg/g
2,3,4,6,7,8-HxCDF	1	100.0%	1.990	1.990	1.840	N/A	N/A	pg/g
2,3,7,8-TCDF	1	100.0%	6.120	6.120	0.735	N/A	N/A	pg/g
23478-PeCDF	1	100.0%	4.290	4.290	1.840	N/A	N/A	pg/g
Dioxin	1	100.0%	2.780	2.780	0.735	N/A	N/A	pg/g
O8CDD	1	100.0%	539.000	539.000	3.680	N/A	N/A	pg/g
OCDF	1	100.0%	40.900	40.900	3.680	N/A	N/A	pg/g
Subsurface Soil								
2-Butanone	3	33.3%	9.800	9.800	5.600	N/A	192000000.0	ug/kg
Acetone	3	100.0%	43.333	94.000	5.367	N/A	102000000.0	ug/kg
Cadmium	3	66.7%	2.050	2.300	N/A	1.700	962.0	mg/kg
Carbon Disulfide	3	33.3%	2.500	2.500	1.100	N/A	15100000.0	ug/kg
Cobalt	3	33.3%	55.000	55.000	N/A	29.040	1550.0	mg/kg
Iron	3	66.7%	97500.000	110000.000	N/A	41046.520	307000.0	mg/kg
Manganese	3	33.3%	1400.000	1400.000	N/A	901.620	3480.0	mg/kg
Methylene chloride	3	100.0%	2.467	2.700	0.937	N/A	2530000.0	ug/kg
Nickel	3	33.3%	190.000	190.000	N/A	62.210	20400.0	mg/kg

Analyte	No. of Samples	Detection Frequency	Average Result	Maximum Result	RL	Background	WRW soil AL	Unit
Toluene	3	33.3%	0.980	0.980	0.910	N/A	31300000.0	ug/kg
Uranium, Total	3	33.3%	5.700	5.700	N/A	3.040	2750.0	mg/kg
Zinc	3	33.3%	300.000	300.000	N/A	139.100	307000.0	mg/kg
O8CDD	3	33.3%	3.790	3.790	2.800	N/A	N/A	pg/g

Table 8
Pond A-2 Summary Statistics

Analyte	No. of Samples	Detection Frequency	Average Result	Maximum Result	RL	Background	WRW soil AL	Unit
Surface Sediment								
2-Butanone	3	33.3%	34.000	34.000	20.000	N/A	192000000.0	ug/kg
Acenaphthene	6	16.7%	180.000	180.000	18.000	N/A	40800000.0	ug/kg
Acetone	3	33.3%	230.000	230.000	20.000	N/A	102000000.0	ug/kg
Aluminum	6	33.3%	24000.000	26000.000	N/A	15713.070	228000.0	mg/kg
Americium-241	9	88.9%	1.399	1.987	N/A	0.270	76.0	pCi/g
Anthracene	6	16.7%	210.000	210.000	18.000	N/A	204000000.0	ug/kg
Arsenic	6	33.3%	10.500	11.000	N/A	7.240	22.2	mg/kg
Barium	6	33.3%	255.000	260.000	N/A	188.170	26400.0	mg/kg
Benzo(a)anthracene	6	16.7%	52.000	52.000	21.000	N/A	34900.0	ug/kg
Benzo(a)pyrene	6	16.7%	51.000	51.000	21.000	N/A	3490.0	ug/kg
Benzo(b)fluoranthene	6	16.7%	64.000	64.000	56.000	N/A	34900.0	ug/kg
bis(2-Ethylhexyl)phthalate	6	66.7%	1485.000	4200.000	302.000	N/A	1970000.0	ug/kg
Chromium	6	33.3%	25.000	26.000	N/A	23.230	268.0	mg/kg
Chrysene	6	16.7%	60.000	60.000	28.000	N/A	3490000.0	ug/kg
Copper	6	33.3%	29.000	30.000	N/A	27.270	40900.0	mg/kg
Fluoranthene	6	16.7%	89.000	89.000	38.000	N/A	27200000.0	ug/kg
Indeno(1,2,3-cd)pyrene	6	16.7%	210.000	210.000	23.000	N/A	34900.0	ug/kg
Iron	6	33.3%	26000.000	28000.000	N/A	21379.010	307000.0	mg/kg
Manganese	6	16.7%	1100.000	1100.000	N/A	659.220	3480.0	mg/kg
Methylene chloride	3	33.3%	9.300	9.300	3.500	N/A	2530000.0	ug/kg
Nickel	6	33.3%	21.500	22.000	N/A	17.890	20400.0	mg/kg
Plutonium-239/240	9	88.9%	4.334	7.426	N/A	1.350	50.0	pCi/g
Strontium	6	16.7%	220.000	220.000	N/A	201.440	613000.0	mg/kg
Toluene	3	66.7%	755.000	860.000	5.000	N/A	31300000.0	ug/kg
Uranium-235	9	33.3%	0.214	0.285	N/A	0.150	8.0	pCi/g
Uranium-238	9	66.7%	5.152	6.100	N/A	3.460	351.0	pCi/g
Vanadium	6	33.3%	56.500	58.000	N/A	46.830	7150.0	mg/kg
Zinc	6	33.3%	110.000	110.000	N/A	104.400	307000.0	mg/kg
1234678-HpCDD	1	100.0%	19.900	19.900	2.860	N/A	N/A	pg/g
O8CDD	1	100.0%	161.000	161.000	5.710	N/A	N/A	pg/g
OCDF	1	100.0%	8.830	8.830	5.710	N/A	N/A	pg/g

Analyte	No. of Samples	Detection Frequency	Average Result	Maximum Result	RL	Background	WRW soil AL	Unit
Subsurface Sediment								
2-Butanone	3	33.3%	71.000	71.000	14.000	N/A	192000000.0	ug/kg
Acetone	3	100.0%	245.667	400.000	45.000	N/A	102000000.0	ug/kg
Aluminum	4	75.0%	34000.000	49000.000	N/A	15713.070	228000.0	mg/kg
Americium-241	3	100.0%	2.077	3.470	N/A	0.270	76.0	pCi/g
Aroclor-1254	4	50.0%	35.000	36.000	25.000	N/A	12400.0	ug/kg
Arsenic	4	75.0%	10.500	12.000	N/A	7.240	22.2	mg/kg
Barium	4	75.0%	316.667	390.000	N/A	188.170	26400.0	mg/kg
Benzo(a)pyrene	4	25.0%	80.000	80.000	48.000	N/A	3490.0	ug/kg
Benzoic Acid	4	25.0%	2700.000	2700.000	1300.000	N/A	1000000000.0	ug/kg
bis(2-Ethylhexyl)phthalate	4	100.0%	13927.500	47000.000	372.500	N/A	1970000.0	ug/kg
Cadmium	4	25.0%	3.200	3.200	N/A	1.880	962.0	mg/kg
Chromium	4	75.0%	37.000	44.000	N/A	23.230	268.0	mg/kg
Chrysene	4	25.0%	81.000	81.000	65.000	N/A	3490000.0	ug/kg
Cobalt	4	25.0%	15.000	15.000	N/A	12.300	1550.0	mg/kg
Copper	4	75.0%	45.667	56.000	N/A	27.270	40900.0	mg/kg
Fluoranthene	4	25.0%	140.000	140.000	87.000	N/A	27200000.0	ug/kg
Iron	4	75.0%	30666.667	39000.000	N/A	21379.010	307000.0	mg/kg
Lithium	4	25.0%	37.000	37.000	N/A	29.670	20400.0	mg/kg
Manganese	4	50.0%	825.000	900.000	N/A	659.220	3480.0	mg/kg
Methylene chloride	3	66.7%	6.650	7.700	3.050	N/A	2530000.0	ug/kg
Nickel	4	100.0%	27.575	34.000	N/A	17.890	20400.0	mg/kg
Plutonium-239/240	4	100.0%	5.230	10.500	N/A	1.350	50.0	pCi/g
Silver	4	25.0%	3.900	3.900	N/A	2.280	5110.0	mg/kg
Strontium	4	25.0%	220.000	220.000	N/A	201.440	613000.0	mg/kg
Uranium-238	4	25.0%	4.530	4.530	N/A	3.460	351.0	pCi/g
Vanadium	4	75.0%	69.333	96.000	N/A	46.830	7150.0	mg/kg
Zinc	4	75.0%	153.333	170.000	N/A	104.400	307000.0	mg/kg
1234678-HpCDD	2	50.0%	19.800	19.800	4.740	N/A	N/A	pg/g
O8CDD	2	100.0%	65.900	114.000	8.930	N/A	N/A	pg/g
Subsurface Soil								
2-Butanone	2	50.0%	12.000	12.000	6.400	N/A	192000000.0	ug/kg
Acetone	2	100.0%	43.000	52.000	5.750	N/A	102000000.0	ug/kg
Americium-241	2	50.0%	1.400	1.400	N/A	0.020	76.0	pCi/g
bis(2-Ethylhexyl)phthalate	2	50.0%	250.000	250.000	96.000	N/A	1970000.0	ug/kg
Methylene chloride	2	100.0%	2.650	2.700	1.000	N/A	2530000.0	ug/kg
Plutonium-239/240	2	50.0%	2.610	2.610	N/A	0.020	50.0	pCi/g
Uranium-238	2	50.0%	2.070	2.070	N/A	1.490	351.0	pCi/g
O8CDD	2	50.0%	8.350	8.350	3.330	N/A	N/A	pg/g

Table 9
Pond A-3 Summary Statistics

Analyte	No. of Samples	Detection Frequency	Average Result	Maximum Result	RL	Background	WRW soil AL	Unit
Surface Sediment								
Aluminum	4	100.0%	21750.000	25000.000	N/A	15713.070	228000.0	mg/kg
Americium-241	4	50.0%	0.421	0.477	N/A	0.270	76.0	pCi/g
Arsenic	4	50.0%	7.550	7.600	N/A	7.240	22.2	mg/kg
Barium	4	25.0%	200.000	200.000	N/A	188.170	26400.0	mg/kg
Chromium	4	25.0%	25.000	25.000	N/A	23.230	268.0	mg/kg
Iron	4	25.0%	22000.000	22000.000	N/A	21379.010	307000.0	mg/kg
Nickel	4	100.0%	19.500	21.000	N/A	17.890	20400.0	mg/kg
Selenium	4	25.0%	1.800	1.800	N/A	1.550	5110.0	mg/kg
Vanadium	4	50.0%	51.000	53.000	N/A	46.830	7150.0	mg/kg
Zinc	4	100.0%	245.000	540.000	N/A	104.400	307000.0	mg/kg
Subsurface Sediment								
Aluminum	4	75.0%	24366.667	27400.000	N/A	15713.070	228000.0	mg/kg
Americium-241	4	75.0%	0.474	0.666	N/A	0.270	76.0	pCi/g
Antimony	3	33.3%	26.000	26.000	N/A	13.010	409.0	mg/kg
Arsenic	4	50.0%	7.650	7.800	N/A	7.240	22.2	mg/kg
Barium	4	25.0%	192.000	192.000	N/A	188.170	26400.0	mg/kg
Chromium	4	50.0%	27.900	29.900	N/A	23.230	268.0	mg/kg
Cobalt	4	50.0%	14.700	15.500	N/A	12.300	1550.0	mg/kg
Iron	4	75.0%	24000.000	25000.000	N/A	21379.010	307000.0	mg/kg
Nickel	4	50.0%	22.650	25.600	N/A	17.890	20400.0	mg/kg
Plutonium-239/240	4	25.0%	2.053	2.053	N/A	1.350	50.0	pCi/g
Toluene	4	100.0%	32.500	62.000	5.000	N/A	31300000.0	ug/kg
Vanadium	4	75.0%	56.800	62.700	N/A	46.830	7150.0	mg/kg
Zinc	4	100.0%	138.750	155.000	N/A	104.400	307000.0	mg/kg

Table 10
Pond A-4 Summary Statistics

Analyte	No. of Samples	Detection Frequency	Average Result	Maximum Result	RL	Background	WRW soil AL	Unit
Surface Sediment								
Aluminum	9	66.7%	19800.000	26000.000	N/A	15713.070	228000.0	mg/kg
Antimony	9	33.3%	32.000	41.400	N/A	13.010	409.0	mg/kg
Arsenic	9	22.2%	9.500	10.200	N/A	7.240	22.2	mg/kg
Barium	9	33.3%	202.000	206.000	N/A	188.170	26400.0	mg/kg
bis(2-Ethylhexyl)phthalate	4	25.0%	950.000	950.000	660.000	N/A	1970000.0	ug/kg
Cadmium	9	11.1%	3.100	3.100	N/A	1.880	962.0	mg/kg
Chromium	9	22.2%	25.400	27.000	N/A	23.230	268.0	mg/kg

Analyte	No. of Samples	Detection Frequency	Average Result	Maximum Result	RL	Background	WRW soil AL	Unit
Cobalt	9	22.2%	13.500	13.900	N/A	12.300	1550.0	mg/kg
Copper	9	11.1%	33.400	33.400	N/A	27.270	40900.0	mg/kg
Iron	9	22.2%	22450.000	22900.000	N/A	21379.010	307000.0	mg/kg
Nickel	9	44.4%	22.425	25.500	N/A	17.890	20400.0	mg/kg
Selenium	9	33.3%	1.733	1.900	N/A	1.550	5110.0	mg/kg
Toluene	4	50.0%	6.500	8.000	5.000	N/A	31300000.0	ug/kg
Vanadium	9	22.2%	58.350	59.000	N/A	46.830	7150.0	mg/kg
Zinc	9	33.3%	131.333	169.000	N/A	104.400	307000.0	mg/kg
Subsurface Sediment								
Aluminum	3	33.3%	23000.000	23000.000	N/A	15713.070	228000.0	mg/kg
Arsenic	3	33.3%	7.300	7.300	N/A	7.240	22.2	mg/kg
Barium	3	66.7%	195.000	200.000	N/A	188.170	26400.0	mg/kg
Chromium	3	33.3%	25.000	25.000	N/A	23.230	268.0	mg/kg
Iron	3	33.3%	55000.000	55000.000	N/A	21379.010	307000.0	mg/kg
Nickel	3	33.3%	18.000	18.000	N/A	17.890	20400.0	mg/kg
Vanadium	3	33.3%	53.000	53.000	N/A	46.830	7150.0	mg/kg

Table 11
Pond A-5 Summary Statistics

Analyte	No. of Samples	Detection Frequency	Average Result	Maximum Result	RL	Background	WRW soil AL	Unit
Surface Sediment								
Acetone	4	25.0%	210.000	210.000	100.000		102000000.0	ug/kg
Aluminum	7	28.6%	19000.000	21000.000	N/A	15713.070	228000.0	mg/kg
Barium	7	14.3%	220.000	220.000	N/A	188.170	26400.0	mg/kg
Cobalt	7	14.3%	13.300	13.300	N/A	12.300	1550.0	mg/kg
Iron	7	14.3%	22000.000	22000.000	N/A	21379.010	307000.0	mg/kg
Nickel	7	28.6%	18.550	19.000	N/A	17.890	20400.0	mg/kg
Toluene	4	75.0%	16.333	18.000	5.000	N/A	31300000.0	ug/kg
Zinc	7	14.3%	130.000	130.000	N/A	104.400	307000.0	mg/kg
Subsurface Sediment								
Aluminum	3	33.3%	17000.000	17000.000	N/A	15713.070	228000.0	mg/kg
Toluene	2	50.0%	16.000	16.000	5.000	N/A	31300000.0	ug/kg
Surface Soil								
Americium-241	2	50.0%	0.122	0.122	N/A	0.023	76.0	pCi/g
Cadmium	8	25.0%	1.665	1.700	N/A	1.612	962.0	mg/kg
Iron	8	12.5%	20800.000	20800.000	N/A	18037.000	307000.0	mg/kg
Lithium	8	50.0%	12.100	13.100	N/A	11.550	20400.0	mg/kg
Nickel	8	37.5%	17.000	18.200	N/A	14.910	20400.0	mg/kg
Plutonium-239/240	2	100.0%	0.262	0.285	N/A	0.066	50.0	pCi/g
Strontium	8	25.0%	54.350	56.000	N/A	48.940	613000.0	mg/kg

Table 12
Pond B-4 Summary Statistics

Analyte	No. of Samples	Detection Frequency	Average Result	Maximum Result	RL	Background	WRW soil AL	Unit
Surface Sediment								
Acenaphthene	6	16.7%	110.000	110.000	38.000	N/A	40800000.0	ug/kg
Aluminum	6	66.7%	21000.000	29000.000	N/A	15713.070	228000.0	mg/kg
Americium-241	6	66.7%	0.746	1.190	N/A	0.270	76.0	pCi/g
Anthracene	6	33.3%	106.500	140.000	35.000	N/A	204000000.0	ug/kg
Aroclor-1254	11	9.1%	160.000	160.000	12.000	N/A	12400.0	ug/kg
Arsenic	6	50.0%	8.067	8.700	N/A	7.240	22.2	mg/kg
Barium	6	50.0%	210.000	220.000	N/A	188.170	26400.0	mg/kg
Benzo(a)anthracene	6	66.7%	180.000	300.000	39.500	N/A	34900.0	ug/kg
Benzo(a)pyrene	6	50.0%	236.667	320.000	38.667	N/A	3490.0	ug/kg
Benzo(b)fluoranthene	6	50.0%	226.667	270.000	102.667	N/A	34900.0	ug/kg
Benzo(k)fluoranthene	6	33.3%	290.000	310.000	82.500	N/A	349000.0	ug/kg
bis(2-Ethylhexyl)phthalate	6	83.3%	442.000	710.000	71.000	N/A	1970000.0	ug/kg
Chromium	6	33.3%	28.000	29.000	N/A	23.230	268.0	mg/kg
Chrysene	6	66.7%	216.000	350.000	53.500	N/A	3490000.0	ug/kg
Copper	6	33.3%	31.500	32.000	N/A	27.270	40900.0	mg/kg
Dibenz(a,h)anthracene	6	33.3%	78.500	92.000	39.500	N/A	3490.0	ug/kg
Fluoranthene	6	66.7%	432.500	750.000	71.250	N/A	27200000.0	ug/kg
Fluorene	6	16.7%	94.000	94.000	41.000	N/A	40800000.0	ug/kg
Indeno(1,2,3-cd)pyrene	6	50.0%	141.333	200.000	42.333	N/A	34900.0	ug/kg
Iron	6	33.3%	23500.000	24000.000	N/A	21379.010	307000.0	mg/kg
Nickel	6	50.0%	20.000	23.000	N/A	17.890	20400.0	mg/kg
Plutonium-239/240	6	33.3%	2.490	2.920	N/A	1.350	50.0	pCi/g
Pyrene	6	33.3%	640.000	700.000	270.000	N/A	22100000.0	ug/kg
Selenium	6	16.7%	1.800	1.800	N/A	1.550	5110.0	mg/kg
Silver	6	33.3%	2.900	3.100	N/A	2.280	5110.0	mg/kg
Vanadium	6	33.3%	57.000	63.000	N/A	46.830	7150.0	mg/kg
Zinc	6	100.0%	276.667	510.000	N/A	104.400	307000.0	mg/kg
Subsurface Sediment								
Aluminum	16	31.3%	21400.000	29000.000	N/A	15713.070	228000.0	mg/kg
Americium-241	17	76.5%	8.205	56.500	N/A	0.270	76.0	pCi/g
Anthracene	16	18.8%	185.000	420.000	41.000	N/A	204000000.0	ug/kg
Antimony	12	16.7%	25.150	25.600	N/A	13.010	409.0	mg/kg
Aroclor-1254	16	43.8%	921.429	3100.000	169.714	N/A	12400.0	ug/kg
Arsenic	16	43.8%	8.086	9.100	N/A	7.240	22.2	mg/kg
Barium	16	31.3%	199.200	230.000	N/A	188.170	26400.0	mg/kg
Benzo(a)anthracene	16	37.5%	256.333	360.000	44.000	N/A	34900.0	ug/kg
Benzo(a)pyrene	16	37.5%	348.333	490.000	44.000	N/A	3490.0	ug/kg
Benzo(b)fluoranthene	16	81.3%	728.462	1500.000	409.308	N/A	34900.0	ug/kg
Benzo(k)fluoranthene	16	31.3%	360.000	540.000	223.600	N/A	349000.0	ug/kg
bis(2-Ethylhexyl)phthalate	16	75.0%	4773.333	25000.000	432.667	N/A	1970000.0	ug/kg

Analyte	No. of Samples	Detection Frequency	Average Result	Maximum Result	RL	Background	WRW soil AL	Unit
Cadmium	16	25.0%	12.950	44.000	N/A	1.880	962.0	mg/kg
Chromium	16	25.0%	54.025	140.000	N/A	23.230	268.0	mg/kg
Chrysene	16	37.5%	428.333	610.000	58.333	N/A	3490000.0	ug/kg
Copper	16	43.8%	45.386	120.000	N/A	27.270	40900.0	mg/kg
Dibenz(a,h)anthracene	16	6.3%	110.000	110.000	31.000	N/A	3490.0	ug/kg
Fluoranthene	16	87.5%	1001.429	1400.000	410.714	N/A	27200000.0	ug/kg
gamma-BHC	7	14.3%	25.000	25.000	8.000	N/A	25500.0	ug/kg
Indeno(1,2,3-cd)pyrene	16	31.3%	212.800	280.000	39.200	N/A	34900.0	ug/kg
Iron	16	6.3%	22000.000	22000.000	N/A	21379.010	307000.0	mg/kg
Lead	16	6.3%	110.000	110.000	N/A	95.600	1000.0	mg/kg
Mercury	16	6.3%	1.700	1.700	N/A	0.340	25200.0	mg/kg
Nickel	16	50.0%	20.788	31.000	N/A	17.890	20400.0	mg/kg
Plutonium-239/240	16	50.0%	44.747	217.000	N/A	1.350	50.0	pCi/g
Pyrene	16	81.3%	832.308	1200.000	486.923	N/A	22100000.0	ug/kg
Selenium	16	6.3%	3.600	3.600	N/A	1.550	5110.0	mg/kg
Silver	16	43.8%	464.586	3100.000	N/A	2.280	5110.0	mg/kg
Toluene	5	60.0%	131.667	360.000	5.000	N/A	31300000.0	ug/kg
Uranium-234	17	11.8%	5.690	6.040	N/A	3.980	300.0	pCi/g
Uranium-238	17	11.8%	7.135	8.510	N/A	3.460	351.0	pCi/g
Vanadium	16	12.5%	55.000	55.000	N/A	46.830	7150.0	mg/kg
Zinc	16	75.0%	212.000	410.000	N/A	104.400	307000.0	mg/kg

Table 13
Pond B-5 Summary Statistics

Analyte	No. of Samples	Detection Frequency	Average Result	Maximum Result	RL	Background	WRW soil AL	Unit
Surface Sediment								
Aluminum	12	58.3%	19100.000	24000.000	N/A	15713.070	228000.0	mg/kg
Americium-241	10	20.0%	0.321	0.337	N/A	0.270	76.0	pCi/g
Arsenic	12	25.0%	8.067	8.600	N/A	7.240	22.2	mg/kg
Barium	12	16.7%	217.000	240.000	N/A	188.170	26400.0	mg/kg
Carbon Tetrachloride	7	28.6%	415.000	440.000	5.000	N/A	81500.0	ug/kg
Chromium	12	16.7%	26.500	27.000	N/A	23.230	268.0	mg/kg
Copper	12	16.7%	28.950	29.900	N/A	27.270	40900.0	mg/kg
Iron	12	8.3%	22000.000	22000.000	N/A	21379.010	307000.0	mg/kg
Methylene chloride	7	28.6%	415.000	420.000	5.000	N/A	2530000.0	ug/kg
Nickel	12	50.0%	19.883	23.800	N/A	17.890	20400.0	mg/kg
Selenium	12	8.3%	1.600	1.600	N/A	1.550	5110.0	mg/kg
Tin	12	8.3%	39.500	39.500	N/A	29.270	613000.0	mg/kg
Toluene	6	83.3%	24.400	47.000	5.000	N/A	31300000.0	ug/kg
Vanadium	12	25.0%	49.600	51.000	N/A	46.830	7150.0	mg/kg
Zinc	12	41.7%	161.200	240.000	N/A	104.400	307000.0	mg/kg
Subsurface Sediment								
Uranium-235	2	50.0%	0.243	0.243	N/A	0.150	8.0	pCi/g

Table 14
Pond C-1 Summary Statistics

Analyte	No. of Samples	Detection Frequency	Average Result	Maximum Result	RL	Background	WRW soil AL	Unit
Surface Sediment								
2,4-Dinitrophenol	5	20.0%	890.000	890.000	270.000	N/A	2040000.0	ug/kg
4,6-Dinitro-2-methylphenol	5	20.0%	750.000	750.000	350.000	N/A	1020000.0	ug/kg
Acenaphthene	5	40.0%	197.000	320.000	33.500	N/A	40800000.0	ug/kg
Aluminum	6	66.7%	26250.000	31000.000	N/A	15713.070	228000.0	mg/kg
Americium-241	11	9.1%	0.442	0.442	N/A	0.270	76.0	pCi/g
Anthracene	5	80.0%	332.500	450.000	36.250	N/A	204000000.0	ug/kg
Aroclor-1254	6	16.7%	94.000	94.000	14.000	N/A	12400.0	ug/kg
Arsenic	10	20.0%	9.500	10.100	N/A	7.240	22.2	mg/kg
Barium	10	100.0%	489.700	857.000	N/A	188.170	26400.0	mg/kg
Benzo(a)anthracene	5	60.0%	133.000	190.000	40.333	N/A	34900.0	ug/kg
Benzo(a)pyrene	5	40.0%	118.000	170.000	39.500	N/A	3490.0	ug/kg
Benzo(b)fluoranthene	5	40.0%	175.000	180.000	115.000	N/A	34900.0	ug/kg
Benzo(k)fluoranthene	5	20.0%	150.000	150.000	87.000	N/A	349000.0	ug/kg
Chromium	10	70.0%	36.429	45.300	N/A	23.230	268.0	mg/kg
Chrysene	5	60.0%	128.333	190.000	55.000	N/A	3490000.0	ug/kg
Cobalt	10	20.0%	13.000	13.000	N/A	12.300	1550.0	mg/kg
Copper	10	70.0%	49.186	83.500	N/A	27.270	40900.0	mg/kg
Dibenz(a,h)anthracene	4	25.0%	530.000	530.000	41.000	N/A	3490.0	ug/kg
Fluoranthene	5	60.0%	190.000	330.000	73.333	N/A	27200000.0	ug/kg
Indeno(1,2,3-cd)pyrene	5	40.0%	420.000	500.000	44.000	N/A	34900.0	ug/kg
Iron	10	90.0%	32400.000	43400.000	N/A	21379.010	307000.0	mg/kg
Manganese	10	30.0%	821.333	970.000	N/A	659.220	3480.0	mg/kg
Mercury	6	33.3%	1.450	1.600	N/A	0.340	25200.0	mg/kg
Nickel	10	90.0%	29.822	49.400	N/A	17.890	20400.0	mg/kg
Pentachlorophenol	5	20.0%	950.000	950.000	240.000	N/A	162000.0	ug/kg
Plutonium-239/240	11	9.1%	2.200	2.200	N/A	1.350	50.0	pCi/g
Pyrene	5	20.0%	310.000	310.000	270.000	N/A	22100000.0	ug/kg
Selenium	9	66.7%	3.067	3.930	N/A	1.550	5110.0	mg/kg
Strontium	10	40.0%	302.750	378.000	N/A	201.440	613000.0	mg/kg
Toluene	2	100.0%	450.000	520.000	5.000	N/A	31300000.0	ug/kg
Uranium-234	11	36.4%	6.750	8.900	N/A	3.980	300.0	pCi/g
Uranium-235	11	45.5%	0.448	0.590	N/A	0.150	8.0	pCi/g
Uranium-238	11	36.4%	6.750	8.900	N/A	3.460	351.0	pCi/g
Vanadium	10	60.0%	112.000	198.000	N/A	46.830	7150.0	mg/kg
Zinc	10	70.0%	133.714	176.000	N/A	104.400	307000.0	mg/kg
Subsurface Sediment								
Acenaphthene	2	50.0%	360.000	360.000	35.000	N/A	40800000.0	ug/kg
Aluminum	2	50.0%	32000.000	32000.000	N/A	15713.070	228000.0	mg/kg
Americium-241	7	14.3%	0.275	0.275	N/A	0.270	76.0	pCi/g
Anthracene	2	50.0%	410.000	410.000	35.000	N/A	204000000.0	ug/kg

Analyte	No. of Samples	Detection Frequency	Average Result	Maximum Result	RL	Background	WRW soil AL	Unit
Aroclor-1254	2	50.0%	120.000	120.000	8.200	N/A	12400.0	ug/kg
Arsenic	6	66.7%	11.330	14.500	N/A	7.240	22.2	mg/kg
Barium	6	83.3%	679.600	880.000	N/A	188.170	26400.0	mg/kg
Benzo(a)anthracene	2	100.0%	71.000	83.000	33.000	N/A	34900.0	ug/kg
Benzo(a)pyrene	2	50.0%	79.000	79.000	41.000	N/A	3490.0	ug/kg
bis(2-Ethylhexyl)phthalate	2	50.0%	130.000	130.000	39.000	N/A	1970000.0	ug/kg
Chromium	6	83.3%	35.560	40.800	N/A	23.230	268.0	mg/kg
Chrysene	2	100.0%	70.500	81.000	45.000	N/A	3490000.0	ug/kg
Copper	6	66.7%	52.050	59.300	N/A	27.270	40900.0	mg/kg
Fluoranthene	2	100.0%	125.000	130.000	60.000	N/A	27200000.0	ug/kg
Indeno(1,2,3-cd)pyrene	2	50.0%	400.000	400.000	46.000	N/A	34900.0	ug/kg
Iron	6	83.3%	34260.000	37100.000	N/A	21379.010	307000.0	mg/kg
Nickel	6	83.3%	38.400	46.000	N/A	17.890	20400.0	mg/kg
Plutonium-239/240	7	14.3%	1.400	1.400	N/A	1.350	50.0	pCi/g
Selenium	6	33.3%	2.030	2.240	N/A	1.550	5110.0	mg/kg
Strontium	6	66.7%	207.750	217.000	N/A	201.440	613000.0	mg/kg
Uranium-234	7	57.1%	9.600	13.000	N/A	3.980	300.0	pCi/g
Uranium-235	7	71.4%	0.446	0.500	N/A	0.150	8.0	pCi/g
Uranium-238	7	57.1%	9.600	13.000	N/A	3.460	351.0	pCi/g
Vanadium	6	83.3%	130.000	155.000	N/A	46.830	7150.0	mg/kg
Zinc	6	83.3%	139.600	157.000	N/A	104.400	307000.0	mg/kg

Table 15
Pond C-2 Summary Statistics

Analyte	No. of Samples	Detection Frequency	Average Result	Maximum Result	RL	Background	WRW soil AL	Unit
Surface Sediment								
Aluminum	8	25.0%	22000.000	22000.000	N/A	15713.070	228000.0	mg/kg
Americium-241	8	75.0%	0.394	0.727	N/A	0.270	76.0	pCi/g
Arsenic	8	25.0%	8.750	9.800	N/A	7.240	22.2	mg/kg
Barium	8	25.0%	223.000	226.000	N/A	188.170	26400.0	mg/kg
Chromium	8	12.5%	25.000	25.000	N/A	23.230	268.0	mg/kg
Copper	8	12.5%	35.900	35.900	N/A	27.270	40900.0	mg/kg
Iron	8	25.0%	25500.000	29000.000	N/A	21379.010	307000.0	mg/kg
Mercury	8	37.5%	0.660	0.680	N/A	0.340	25200.0	mg/kg
Nickel	8	62.5%	18.820	21.000	N/A	17.890	20400.0	mg/kg
Plutonium-239/240	8	75.0%	2.088	2.960	N/A	1.350	50.0	pCi/g
Toluene	3	100.0%	373.333	410.000	5.000	N/A	31300000.0	ug/kg
Uranium-235	5	20.0%	0.219	0.219	N/A	0.150	8.0	pCi/g
Vanadium	8	12.5%	50.000	50.000	N/A	46.830	7150.0	mg/kg
Zinc	8	37.5%	163.667	201.000	N/A	104.400	307000.0	mg/kg
Subsurface Sediment								
Aluminum	3	33.3%	21000.000	21000.000	N/A	15713.070	228000.0	mg/kg
Americium-241	3	33.3%	0.305	0.305	N/A	0.270	76.0	pCi/g

Analyte	No. of Samples	Detection Frequency	Average Result	Maximum Result	RL	Background	WRW soil AL	Unit
Nickel	3	33.3%	20.000	20.000	N/A	17.890	20400.0	mg/kg
Plutonium-239/240	3	33.3%	1.640	1.640	N/A	1.350	50.0	pCi/g

3.0 RCRA UNIT CLOSURE

The ponds are not RCRA Units; therefore, RCRA Unit information is not applicable.

4.0 SUBSURFACE SOIL RISK SCREEN

Although the Subsurface Soil Risk Screen (SSRS) generally applies to soil, the RFCA parties have agreed that this analysis should also apply to sediment. The SSRS follows the steps identified on Figure 3 in Attachment 5 of RFCA (DOE et al. 2003). Pond C-1 was granted NFAA status in 2004 and the SSRS for Pond C-1 is included in the NFAA Justification (DOE 2004a).

Screen 1 – Are the COC concentrations below RFCA Table 3 WRW Soil ALs?

No. As shown in Table 3, all COC concentrations or activities are less than the WRW soil ALs with the exception of one subsurface sediment sample (DB47-004) in Pond B-4, which had plutonium-239/240 activity of 217 pCi/g in a sample collected at a depth of 2.5 to 3.9 ft bgs. A follow-up sample was collected at the same location at a depth of 1.0 to 3.0 ft bgs (DB47-006). The plutonium-239/240 activity in this sample was less than the background mean plus two standard deviations. Therefore, the exceedance detected at DB47-004 is limited to depths greater than 3 ft.

Screen 2 – Is there a potential for subsurface soil to become surface soil?

No. Given that all of the ponds, including B-4, are currently configured as low-energy ponds favoring ongoing sedimentation (not erosion), it is not likely that subsurface sediment at depths exceeding 3.0 feet bgs will become surface sediment.

Screen 3 – Does subsurface soil radiological contamination exceed the criteria in Section 5.3 of Attachment 14?

No. The contamination consists only of one detection of plutonium-239/240 at an activity of 217 pCi/g. Furthermore, Attachment 14 is applicable to subsurface soil associated with OPWL, and there are no OPWLs associated with Pond B-4, where this detection occurred.

Screen 4 – Is there an environmental pathway and sufficient quantity of COCs that would cause an exceedance of the surface water standards?

Yes, an environmental pathway to surface water is inherent to the ponds. Although the quantity of COCs is relatively low in pond sediment from 0 to 3 ft deep, there is one plutonium-239/240 exceedance in Pond B-4 at a depth of 3.0 to 3.9 ft. As noted in Section 2.2.6, sediment above the 3 ft interval was resampled and plutonium-239/240 activities were well below WRW soil ALs. The only other COCs with concentrations exceeding 10 percent of the WRW soil ALs in Ponds A-1, A-2, A-3, A-4, A-5, B-4, B-5, and C-2 are aluminum,

arsenic, chromium, iron, and manganese. These COCs with levels that exceeded 10 percent of the WRW soil ALs in subsurface soil or sediment are listed in Table 16.

Table 16
COCs with Concentrations Greater Than 10 Percent of the WRW Soil AL

Analyte	Number of Locations	Maximum Detection	Depth (ft)	Background	WRW AL	Unit
Aluminum	5	49000	2.5-4.5	15713.07	228000	mg/kg
Arsenic	9	12	0.5-2.5	7.24	22.2	mg/kg
Chromium	3	44	2.5-4.5	23.23	268	mg/kg
Iron	1	39000	2.5-4.5	21379.01	307000	mg/kg
Manganese	1	900	2.5-4.5	659.22	3480	mg/kg
Plutonium	1	217	3-3.9	1.35	50	pCi/L

Aside from the plutonium-239/240 exceedance in Pond B-4, the contaminant concentrations in these ponds are relatively low compared to WRW soil ALs and generally only slightly greater than background.

Contaminant migration via erosion from a significant storm event or flooding is a possible pathway whereby surface water could be affected by IHSS Group NE-1 pond sediment and soil. However, the ponds are configured to protect off-site water sources. Water retained in the Terminal Ponds is routinely sampled and is released only after it is determined that the results meet applicable surface water standards. Erosion of the pond sediments by a large influx of water (from a storm) is not likely because the ponds are currently, and are expected to remain, as low-energy ponds. In this configuration, sedimentation is favored, not erosion. Subsurface sediment at Pond A-5 (a non-terminal pond) is not likely to affect surface water because the concentrations of analytes are close to background and it is a low-energy pond. The quantity of water available for all of the ponds is expected to decrease after Site closure. Additionally, predictions of contaminant migration based on integration of the Water Erosion Prediction Project (WEPP) (USDA 1995) and Hydraulic Engineering Center (HEC)-6T (Thomas 1999) models are conservative. Site empirical data indicate contaminant migration is less than model predictions. Additional details can be found in the Report on Soil Erosion and Surface Water Sediment Transport Modeling for Actinide Migration Evaluations (DOE 2000).

Although it is possible that contaminants from IHSS Group NE-1 could enter groundwater via dissolution in infiltrating precipitation, the impact would be minimal because the amount of contamination present is minimal aside from the one plutonium-239/240 exceedance in Pond B-4. Plutonium-239/240 is relatively insoluble in groundwater at RFETS. Groundwater beneath limited portions of IHSS Group NE-1 is contaminated with VOCs. These analytes were not detected in IHSS Group NE-1 sediment and have sources elsewhere on Site. Groundwater was evaluated in the Groundwater Interim Measure/Interim Remedial Action (IM/IRA) (DOE 2005e).

5.0 NFAA SUMMARY

Based on analytical results and the SSRS, accelerated action is not required and an NFAA determination is justified for IHSS Group NE-1 given the following:

- Activities and concentrations of COCs were uniformly below RFCA WRW soil ALs with the exception of one detection of plutonium-239/240 in a subsurface sediment sample collected at Pond B-4 at a depth of 2.5 to 3.9 feet. This is an isolated detection.
- Migration of soil or sediment contaminants to surface water is unlikely to impact water quality because little contamination is present. Routine surface water monitoring results indicate surface water standards are met and that pond sediments are not impacting surface water. The ponds are also configured to protect off-site water sources. Stormwater runoff is retained in the Terminal Ponds, sampled, and if the surface water results meet applicable standards, the water is released. Erosion of the pond sediments because of a large influx of water (from a storm) is not likely because the ponds are currently and expected to remain as low-energy ponds and less water will be available after Site closure. Subsurface sediment at Pond A-5 (a non-terminal pond) is not likely to affect surface water because the concentrations of analytes are close to background and it is a low-energy pond. Additionally, predictions of contaminant migration based on the integration of the WEPP (USDA 1995) and HEC-6T (Thomas 1999) models are conservative. Site empirical data indicate contaminant migration is less than model predictions.
- Contaminants originating in IHSS Group NE-1 soil and sediment are not likely to impact surface water via transport in groundwater because soil contamination levels in IHSS Group NE-1 are very low. Groundwater contamination present beneath IHSS Group NE-1 was evaluated as part of the Groundwater IM/IRA (DOE 2005e).
- Pond C-1 was granted NFAA status in 2004.

Approval of this Data Summary Report constitutes regulatory agency determination that IHSSs NE-142.1, NE-142.2, NE-142.3, NE-142.4, NE-142.8, NE-142.9, NE-142.12, and SE-142.11 are NFAA Sites. This information and the NFAA determination will be documented in the FY05 HRR.

6.0 DATA QUALITY ASSESSMENT

This Data Quality Assessment (DQA) was conducted in accordance with the IABZSAP (DOE 2004b) to describe the quality of data and its adherence to the IABZSAP DQOs. DQOs for recent project data are described in the IABZSAP (DOE 2004b). DQOs for OU-specific data collection are described in the Final Phase I RFI/RI Work Plan for the Walnut Creek Priority Drainage, OU 6 (DOE 1996). Only QC records associated with data included in this report are included in the DQA.

The DQOs for this project are described in the IABZSAP (DOE 2004b). All DQOs for this project were achieved based on the following:

- Regulatory agency-approved sampling program design in accordance with the IASAP (DOE 2001) and IABZSAP(DOE 2004b);
- Collection of samples in accordance with the sampling design;
- Implementation of remediation activities in accordance with ER RSOP Notification #05-01 (DOE 2004c); and
- Results of the DQA, as described in the following sections.

6.1 Data Quality Assessment Process

The DQA process ensures that the type, quantity, and quality of environmental data used in decision making are defensible, and is based on the following guidance and requirements:

- EPA, 1994a, Guidance for the Data Quality Objective Process, QA/G-4;
- EPA, 1998, Guidance for the Data Quality Assessment Process, Practical Methods for Data Analysis, QA/G-9; and
- DOE, 1999, Quality Assurance, Order 414.1A.

Verification and validation (V&V) of data are the primary components of the DQA. The final data are compared with original project DQOs and evaluated with respect to project decisions; uncertainty within the decisions; and quality criteria required for the data, specifically precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS). Validation criteria are consistent with the following RFETS-specific documents and industry guidelines:

- EPA, 1994b, USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, 540/R-94/012;
- EPA, 1994c, USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, 540/R-94/013;
- Kaiser-Hill Company, L.L.C. (K-H), 2002a, General Guidelines for Data Verification and Validation, DA-GR01-v2, October;
- K-H, 2002b, V&V Guidelines for Isotopic Determinations by Alpha Spectrometry, DA-RC01-v2, October;
- K-H, 2002c, V&V Guidelines for Volatile Organics, DA-SS01-v3, October;
- K-H, 2002d, V&V Guidelines for Semivolatile Organics, DA-SS02-v3, October;
- K-H, 2002e, V&V Guidelines for Metals, DA-SS05-v3, October; and
- Lockheed-Martin, 1997, Evaluation of Radiochemical Data Usability, ES/ER/MS-5.

This report will be submitted to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) AR for permanent storage 30 days after being provided to CDPHE and/or EPA.

6.2 Verification and Validation of Results

Verification ensures that data produced and used by the project are documented and traceable in accordance with quality requirements. Validation consists of a technical review of all data that directly support the project decisions so that any limitations of the data relative to project goals are delineated and the associated data are qualified accordingly. The V&V process defines the criteria that constitute data quality, namely PARCCS parameters. Data traceability and archival are also addressed. V&V criteria include the following:

- Chain-of-custody;
- Preservation and hold times;
- Instrument calibrations;
- Preparation blanks;
- Interference check samples (metals);
- Matrix spikes/matrix spike duplicates (MS/MSDs);
- Laboratory control samples (LCSs);
- Field duplicate measurements;
- Chemical yield (radiochemistry);
- Required quantitation limits/minimum detectable activities (sensitivity of chemical and radiochemical measurements, respectively); and
- Sample analysis and preparation methods.

Evaluation of V&V criteria ensures that PARCCS parameters are satisfactory (that is, within tolerances acceptable to the project). Satisfactory V&V of laboratory quality controls are captured through application of validation "flags" or qualifiers to individual records.

Raw hard-copy data (for example, individual analytical data packages) are currently filed by report identification number (RIN) and maintained by K-H Analytical Services Division (ASD). Older hard copies may reside in the Federal Center in Lakewood, Colorado. Electronic data are stored in the RFETS SWD. Standardized real and QC data are included on the enclosed CD.

6.2.1 Accuracy

The following measures of accuracy were evaluated:

- LCSs;
- Surrogates;
- Field blanks; and
- Sample MSs.

Results are compared to method requirements and project goals. The results of these comparisons are summarized for RFCA COCs where the results could impact project decisions. Particular attention is paid to those values near ALs when QC results could indicate unacceptable levels of uncertainty for decision-making purposes.

Laboratory Control Sample Evaluation

As indicated in Table 17, LCS analyses were run, but not for all methods. When the In-Situ Counting System (ISOCS) technique is used for gamma spectroscopy, an internal standard approach is used instead of LCSs. The onsite laboratory that performs gamma spectroscopy is therefore not required to provide LCS data. Numerous samples were collected and analyzed prior to the current DQO, and were therefore not required to meet the modern DQO requirements. Several batches were without LCSs; however, this did not impact project decisions.

Table 17
LCS Summary

Test Method	Laboratory Batch	LCS Run?
ALPHA SPEC	107131	No
ALPHA SPEC	130421	Yes
ALPHA SPEC	130422	Yes
ALPHA SPEC	130423	Yes
ALPHA SPEC	1575	No
ALPHA SPEC	1650	Yes
ALPHA SPEC	1701	Yes
ALPHA SPEC	1862	Yes
ALPHA SPEC	1997	Yes
ALPHA SPEC	2036	Yes
ALPHA SPEC	2150	Yes
ALPHA SPEC	2279	Yes
ALPHA SPEC	2358	Yes
ALPHA SPEC	2378	Yes
ALPHA SPEC	4363290	Yes
ALPHA SPEC	4363293	Yes
ALPHA SPEC	4363295	Yes
ALPHA SPEC	4364318	Yes
ALPHA SPEC	4364321	Yes
ALPHA SPEC	4364322	Yes
ALPHA SPEC	5193438	Yes
ALPHA SPEC	5193445	Yes
ALPHA SPEC	5193446	Yes
ALPHA SPEC	5199477	Yes
ALPHA SPEC	5199482	Yes
ALPHA SPEC	5199483	Yes

Test Method	Laboratory Batch	LCS Run?
ALPHA SPEC	5201227	Yes
ALPHA SPEC	5201229	Yes
ALPHA SPEC	5201231	Yes
ALPHA SPEC	5202490	Yes
ALPHA SPEC	5202496	Yes
ALPHA SPEC	5203300	Yes
ALPHA SPEC	5203302	Yes
ALPHA SPEC	5203304	Yes
ALPHA SPEC	5207516	Yes
ALPHA SPEC	5207520	Yes
ALPHA SPEC	5207521	Yes
ALPHA SPEC	5207535	Yes
ALPHA SPEC	5210490	Yes
ALPHA SPEC	5210492	Yes
ALPHA SPEC	5210496	Yes
ALPHA SPEC	5214455	Yes
ALPHA SPEC	5214456	Yes
ALPHA SPEC	5214457	Yes
ALPHA SPEC	5215430	Yes
ALPHA SPEC	5215433	Yes
ALPHA SPEC	5215434	Yes
BN/ACLP	P304	No
BN/ACLP	S215	No
BN/ACLP	S239	No
BN/ACLP	S245	No
BN/ACLP	S260	No
BN/ACLP	S431	No
CLP-SOW-TOTAL	97GI802	Yes
CLP-SOW-TOTAL	97HG094	Yes
CLP-SOWMEDIUM LEVEL SOIL METHOD	V10104	No
EPA 624	00LVH396	Yes
EPA 624	00LVK001	Yes
EPA 624	00LVK300	Yes
EPA 624	01LVK165	Yes
EPA 624	01LVN126	Yes
EPA 624	242042801	Yes
METADD	P304	No
METADD	S209	No
METADD	S218	No
METADD	S229	No
METADD	S235	No
METADD	S236	No
METADD	S237	No

Test Method	Laboratory Batch	LCS Run?
METADD	S244	No
METADD	S248	No
METADD	S266	No
METADD	S444	No
METCLP	S218	No
PCB8080C	9406G456	No
PCB8080C	9406G580	No
PCB8080C	9406G631	No
PCB8080C	9406G723	No
PCB8080C	9406G747	No
PCB8080C	9406G871	No
PCB8080C	9407G123	No
PESTCLP	P304	No
PESTCLP	S127	No
PESTCLP	S215	No
PESTCLP	S239	No
PESTCLP	S245	No
PESTCLP	S260	No
PESTCLP	S431	No
SMETCLP	P304	No
SMETCLP	S209	No
SMETCLP	S218	No
SMETCLP	S229	No
SMETCLP	S235	No
SMETCLP	S236	No
SMETCLP	S237	No
SMETCLP	S244	No
SMETCLP	S248	No
SMETCLP	S266	No
SMETCLP	S444	No
SW-846 6010	4363216	Yes
SW-846 6010	4363604	Yes
SW-846 6010	4365400	Yes
SW-846 6010	5189459	Yes
SW-846 6010	5192216	Yes
SW-846 6010	5195222	Yes
SW-846 6010	5195567	Yes
SW-846 6010	5196202	Yes
SW-846 6010	5196440	Yes
SW-846 6010	5199186	Yes
SW-846 6010	5200236	Yes
SW-846 6010	5201020	Yes
SW-846 6010	5201040	Yes

Test Method	Laboratory Batch	LCS Run?
SW-846 6010	5201582	Yes
SW-846 6010	5202290	Yes
SW-846 6010	5202612	Yes
SW-846 6010	5203462	Yes
SW-846 6010	5206211	Yes
SW-846 6010	5206460	Yes
SW-846 6010	5210499	Yes
SW-846 6010	5211142	Yes
SW-846 6010	5211153	Yes
SW-846 6010	5213593	Yes
SW-846 6010	5214583	Yes
SW-846 6010/6010B	130033	Yes
SW-846 6010/6010B	130037	Yes
SW-846 6010/6010B	130264	Yes
SW-846 6010/6010B	131022	Yes
SW-846 6010/6010B	131030	Yes
SW-846 6010/6010B	131089	Yes
SW-846 6010/6010B	131122	Yes
SW-846 6010/6010B	132307	Yes
SW-846 8082	4362441	Yes
SW-846 8082	4363589	Yes
SW-846 8082	5189366	Yes
SW-846 8082	5196457	Yes
SW-846 8082	5199549	Yes
SW-846 8082	5200530	Yes
SW-846 8082	5201424	Yes
SW-846 8082	5201631	Yes
SW-846 8082	5202432	Yes
SW-846 8082	5204014	Yes
SW-846 8260	131871	Yes
SW-846 8260	5004135	Yes
SW-846 8260 LOW LEVEL	00LVK108	No
SW-846 8270	4364401	Yes
SW-846 8270	5189367	Yes
SW-846 8270	5196456	Yes
SW-846 8270	5199551	Yes
SW-846 8270	5201425	Yes
SW-846 8270	5202461	Yes
SW-846 8270	5203386	Yes
SW-846 8270	5209618	Yes
SW-846 8270B	00LE0229	Yes
TRADS	RF-W-SDG1	No
TRADS	RF249	No

Test Method	Laboratory Batch	LCS Run?
TRADS	RF250	No
TRADS	S2-11-056	No
TRADS	S2-12-018	No
TRADS	S3-05-061	No
TRADS	SDG1643	No
TRADS	SDG1644	No
TRADS	SDG1833	No
TRADS	SDG1849	No
TRADS	SDG2944	No
TRADS	SDG2945	No
VOACLP	P304	No
VOACLP	S213	No
VOACLP	S238	No
VOACLP	S257	No
VOACLP	S262	No
VOACLP	S440	No

The minimum and maximum LCS results are tabulated, by chemical, for the entire project in Table 18. LCS results outside of tolerances were reviewed to determine whether a potential bias might be indicated. LCS recoveries are not indicative of matrix effects because they are not prepared using site samples. LCS results do indicate whether the laboratory may be introducing a bias in the results. Recoveries reported above the upper limit may indicate the actual sample results are less than reported. Because this is environmentally conservative, no further action is needed.

The analytes with unacceptably low recoveries were evaluated. If the highest sample result divided by the lowest LCS recovery for that analyte is less than the AL, no further action is taken because any indicated bias is not great enough to affect project decisions. Based on this analysis, the LCS recoveries for this project did not affect project decisions.

Table 18
LCS Evaluation Summary

Test Method	CAS No.	Analyte	Minimum Percent Recovery	Maximum Percent Recovery
SW-846 8260	71-55-6	1,1,1-Trichloroethane	93	93
SW-846 8260	79-34-5	1,1,2,2-Tetrachloroethane	104	104
SW-846 8260	79-00-5	1,1,2-Trichloroethane	96	96
SW-846 8260	75-34-3	1,1-Dichloroethane	88	88
SW-846 8260	75-35-4	1,1-Dichloroethene	93	105
SW-846 8260	120-82-1	1,2,4-Trichlorobenzene	97	97
SW-846 8270	120-82-1	1,2,4-Trichlorobenzene	56	81

Test Method	CAS No.	Analyte	Minimum Percent Recovery	Maximum Percent Recovery
SW-846 8260	95-50-1	1,2-Dichlorobenzene	93	93
SW-846 8260	107-06-2	1,2-Dichloroethane	87	87
SW-846 8260	78-87-5	1,2-Dichloropropane	88	88
SW-846 8260	106-46-7	1,4-Dichlorobenzene	96	96
SW-846 8270	95-95-4	2,4,5-Trichlorophenol	69	86
SW-846 8270	88-06-2	2,4,6-Trichlorophenol	64	89
SW-846 8270	120-83-2	2,4-Dichlorophenol	64	80
SW-846 8270	105-67-9	2,4-Dimethylphenol	66	80
SW-846 8270	51-28-5	2,4-Dinitrophenol	22	77
SW-846 8270	121-14-2	2,4-Dinitrotoluene	73	94
SW-846 8270	606-20-2	2,6-Dinitrotoluene	64	89
SW-846 8260	78-93-3	2-Butanone	93	93
SW-846 8270	91-58-7	2-Chloronaphthalene	65	80
SW-846 8270	95-57-8	2-Chlorophenol	64	81
SW-846 8270	91-57-6	2-Methylnaphthalene	63	80
SW-846 8270	95-48-7	2-Methylphenol	66	91
SW-846 8270	88-74-4	2-Nitroaniline	63	91
SW-846 8270	91-94-1	3,3'-Dichlorobenzidine	60	82
SW-846 8270	534-52-1	4,6-Dinitro-2-methylphenol	35	82
SW-846 8270	106-47-8	4-Chloroaniline	52	64
SW-846 8260	108-10-1	4-Methyl-2-pentanone	95	95
SW-846 8270	106-44-5	4-Methylphenol	69	94
SW-846 8270	100-02-7	4-Nitrophenol	66	113
SW-846 8270	83-32-9	Acenaphthene	63	79
SW-846 8260	67-64-1	Acetone	93	93
SW-846 6010/6010B	7429-90-5	Aluminum	109.1	114.4
CLP-SOW-TOTAL	7429-90-5	Aluminum	92.6	92.6
SW-846 6010	7429-90-5	Aluminum	95	109
ALPHA SPEC	14596-10-2	Americium-241	110	110
SW-846 8270	120-12-7	Anthracene	68	87
SW-846 6010/6010B	7440-36-0	Antimony	66.7	75.6
SW-846 6010	7440-36-0	Antimony	89	99
CLP-SOW-TOTAL	7440-36-0	Antimony	91	91
SW-846 8082	12674-11-2	Aroclor-1016	81	112
SW-846 8082	11096-82-5	Aroclor-1260	73	106
SW-846 6010/6010B	7440-38-2	Arsenic	100.8	100.8
CLP-SOW-TOTAL	7440-38-2	Arsenic	91.3	91.3
SW-846 6010	7440-38-2	Arsenic	90	101
SW-846 6010	7440-39-3	Barium	98	104
CLP-SOW-TOTAL	7440-39-3	Barium	88.7	88.7
SW-846 6010/6010B	7440-39-3	Barium	98.6	104.6
SW-846 8260	71-43-2	Benzene	85	93

Test Method	CAS No.	Analyte	Minimum Percent Recovery	Maximum Percent Recovery
SW-846 8270	56-55-3	Benzo(a)anthracene	64	97
SW-846 8270	50-32-8	Benzo(a)pyrene	64	94
SW-846 8270	205-99-2	Benzo(b)fluoranthene	64	100
SW-846 8270	207-08-9	Benzo(k)fluoranthene	65	89
SW-846 8270	65-85-0	Benzoic Acid	21	74
SW-846 8270	100-51-6	Benzyl Alcohol	63	81
SW-846 6010/6010B	7440-41-7	Beryllium	83.1	89.3
CLP-SOW-TOTAL	7440-41-7	Beryllium	90.1	90.1
SW-846 6010	7440-41-7	Beryllium	97	103
SW-846 8270	111-44-4	bis(2-Chloroethyl)ether	61	80
SW-846 8270	39638-32-9	bis(2-Chloroisopropyl)ether	73	85
SW-846 8270	117-81-7	bis(2-Ethylhexyl)phthalate	65	103
SW-846 8260	75-27-4	Bromodichloromethane	90	90
SW-846 8260	75-25-2	Bromoform	101	101
SW-846 8260	74-83-9	Bromomethane	97	97
SW-846 8270	85-68-7	Butylbenzylphthalate	68	100
SW-846 6010	7440-43-9	Cadmium	92	102
CLP-SOW-TOTAL	7440-43-9	Cadmium	92	92
SW-846 6010/6010B	7440-43-9	Cadmium	91.2	98.4
SW-846 8260	75-15-0	Carbon Disulfide	75	75
SW-846 8260	56-23-5	Carbon Tetrachloride	93	93
SW-846 8260	108-90-7	Chlorobenzene	94	97
SW-846 8260	75-00-3	Chloroethane	95	95
SW-846 8260	67-66-3	Chloroform	91	91
SW-846 8260	74-87-3	Chloromethane	94	94
SW-846 6010/6010B	7440-47-3	Chromium	102.8	104.9
CLP-SOW-TOTAL	7440-47-3	Chromium	92.9	92.9
SW-846 6010	7440-47-3	Chromium	94	104
SW-846 8270	218-01-9	Chrysene	63	94
SW-846 8260	10061-01-5	cis-1,3-Dichloropropene	93	93
SW-846 6010/6010B	7440-48-4	Cobalt	104.5	107.3
SW-846 6010	7440-48-4	Cobalt	91	101
CLP-SOW-TOTAL	7440-48-4	Cobalt	91.3	91.3
CLP-SOW-TOTAL	7440-50-8	Copper	89.3	89.3
SW-846 6010	7440-50-8	Copper	93	100
SW-846 6010/6010B	7440-50-8	Copper	99.3	109.2
SW-846 8270	84-74-2	Di-n-butylphthalate	70	101
SW-846 8270	117-84-0	Di-n-octylphthalate	65	96
SW-846 8270	53-70-3	Dibenz(a,h)anthracene	61	89
SW-846 8270	132-64-9	Dibenzofuran	64	87
SW-846 8260	124-48-1	Dibromochloromethane	95	95
SW-846 8270	84-66-2	Diethylphthalate	70	92

Test Method	CAS No.	Analyte	Minimum Percent Recovery	Maximum Percent Recovery
SW-846 8270	131-11-3	Dimethylphthalate	69	90
SW-846 8260	100-41-4	Ethylbenzene	100	100
SW-846 8270	206-44-0	Fluoranthene	71	100
SW-846 8270	86-73-7	Fluorene	65	86
SW-846 8270	118-74-1	Hexachlorobenzene	64	89
SW-846 8260	87-68-3	Hexachlorobutadiene	96	96
SW-846 8270	87-68-3	Hexachlorobutadiene	51	78
SW-846 8270	77-47-4	Hexachlorocyclopentadiene	51	78
SW-846 8270	67-72-1	Hexachloroethane	54	76
SW-846 8270	193-39-5	Indeno(1,2,3-cd)pyrene	62	87
SW-846 6010/6010B	7439-89-6	Iron	97.2	103.5
SW-846 6010	7439-89-6	Iron	98	120
CLP-SOW-TOTAL	7439-89-6	Iron	88.8	88.8
SW-846 8270	78-59-1	Isophorone	61	77
CLP-SOW-TOTAL	7439-92-1	Lead	92.8	92.8
SW-846 6010	7439-92-1	Lead	92	100
SW-846 6010/6010B	7439-92-1	Lead	95.3	95.8
SW-846 6010/6010B	7439-93-2	Lithium	96.9	97.1
SW-846 6010	7439-93-2	Lithium	97	104
CLP-SOW-TOTAL	7439-93-2	Lithium	105	105
CLP-SOW-TOTAL	7439-96-5	Manganese	89.8	89.8
SW-846 6010	7439-96-5	Manganese	96	102
SW-846 6010/6010B	7439-96-5	Manganese	103.4	104.9
SW-846 6010/6010B	7439-97-6	Mercury	87.1	91.1
SW-846 6010	7439-97-6	Mercury	93	106
CLP-SOW-TOTAL	7439-97-6	Mercury	107	107
SW-846 8260	75-09-2	Methylene chloride	93	93
CLP-SOW-TOTAL	7439-98-7	Molybdenum	90.8	90.8
SW-846 6010	7439-98-7	Molybdenum	92	101
SW-846 6010/6010B	7439-98-7	Molybdenum	100.9	104.4
SW-846 8270	86-30-6	n-Nitrosodiphenylamine	73	158
SW-846 8270	621-64-7	n-Nitrosodipropylamine	68	81
SW-846 8260	91-20-3	Naphthalene	95	95
SW-846 8270	91-20-3	Naphthalene	59	78
SW-846 6010/6010B	7440-02-0	Nickel	103.8	108.3
SW-846 6010	7440-02-0	Nickel	93	101
CLP-SOW-TOTAL	7440-02-0	Nickel	92.3	92.3
SW-846 8270	98-95-3	Nitrobenzene	66	81
SW-846 8270	87-86-5	Pentachlorophenol	60	97
SW-846 8270	108-95-2	Phenol	69	85
ALPHA SPEC	10-12-8	Plutonium-239/240	105	105
SW-846 8270	129-00-0	Pyrene	62	105

Test Method	CAS No.	Analyte	Minimum Percent Recovery	Maximum Percent Recovery
SW-846 6010/6010B	7782-49-2	Selenium	106.7	106.9
SW-846 6010	7782-49-2	Selenium	90	99
CLP-SOW-TOTAL	7782-49-2	Selenium	92.2	92.2
SW-846 6010/6010B	7440-22-4	Silver	110.4	116
CLP-SOW-TOTAL	7440-22-4	Silver	92.1	92.1
SW-846 6010	7440-22-4	Silver	95	106
SW-846 6010	7440-24-6	Strontium	96	102
CLP-SOW-TOTAL	7440-24-6	Strontium	90.3	90.3
SW-846 6010/6010B	7440-24-6	Strontium	102.5	110.9
SW-846 8260	100-42-5	Styrene	102	102
SW-846 8260	127-18-4	Tetrachloroethene	98	98
SW-846 6010/6010B	7440-31-5	Tin	98.3	99.3
CLP-SOW-TOTAL	7440-31-5	Tin	91.8	91.8
SW-846 6010	7440-31-5	Tin	91	100
SW-846 8260	108-88-3	Toluene	88	97
SW-846 8260	10061-02-6	trans-1,3-Dichloropropene	97	97
SW-846 8260	79-01-6	Trichloroethene	86	92
SW-846 6010	11-09-6	Uranium, Total	99	108
SW-846 6010/6010B	11-09-6	Uranium, Total	81.3	90.4
ALPHA SPEC	7440-61-1	Uranium-238	84	84
SW-846 6010/6010B	7440-62-2	Vanadium	98.7	108
SW-846 6010	7440-62-2	Vanadium	94	103
CLP-SOW-TOTAL	7440-62-2	Vanadium	100	100
SW-846 8260	75-01-4	Vinyl chloride	94	94
SW-846 8260	1330-20-7	Xylene	101	101
CLP-SOW-TOTAL	7440-66-6	Zinc	91.2	91.2
SW-846 6010	7440-66-6	Zinc	91	98
SW-846 6010/6010B	7440-66-6	Zinc	100.5	105.3

Surrogate Evaluation

The frequency of surrogate measurements, relative to each laboratory batch, is given in Table 19. Surrogate frequency was adequate based on at least one set per sample. The minimum and maximum surrogate results are also tabulated, by chemical, for the entire project. Surrogates are added to every sample, and, therefore, surrogate recoveries only impact individual samples. Unacceptable surrogate recoveries can indicate potential matrix effects. The highest and lowest surrogate recoveries for this project were reviewed, and results did not affect project decisions.

Table 19
Surrogate Recovery Summary

Number of Samples	Analyte	Minimum Percent Recovery	Maximum Percent Recovery
VOC Surrogate Recoveries			
21	4-Bromofluorobenzene	86	126
5	Deuterated 1,2-dichloroethane	77	80
21	Deuterated Toluene	95	118
SVOC Surrogate Recoveries			
5	2-Fluorobiphenyl	60	71
5	2-Fluorophenol	63	72
5	Deuterated Nitrobenzene	61	70
5	p-Terphenyl-d14	70	75

Field Blank Evaluation

Results of the field blank analyses are listed in Table 20. Detectable amounts of contaminants within the blanks, which could indicate possible cross-contamination of samples, are evaluated if the same contaminant is detected in the associated real samples. When the real result is less than 10 times the blank result for laboratory contaminants and 5 times the result for non-laboratory contaminants, the real result is eliminated. None of the chemicals were detected in the blanks at concentrations greater than one-tenth the AL. Therefore, blank contamination did not adversely impact project decisions.

Table 20
Field Blank Summary

Laboratory	CAS No.	Analyte	Sample QC Code	Detected Result	Unit
ITLSL	7429-90-5	Aluminum	RNS	48.8	ug/L
ITLR	14596-10-2	Americium-241	RNS	0.01594	pCi/L
SCTK	14596-10-2	Americium-241	RNS	0.0015	pCi/L
ITLSL	7440-36-0	Antimony	RNS	67.1	ug/L
RFWG	11097-69-1	Aroclor-1254	RNS	95	%
ITLSL	7440-39-3	Barium	RNS	6.2	ug/L
ITLSL	117-81-7	bis(2-Ethylhexyl)phthalate	RNS	3	ug/L
ITLSL	7440-47-3	Chromium	RNS	11.6	ug/L
ITLSL	7439-92-1	Lead	RNS	3.9	ug/L
ITLSL	7439-96-5	Manganese	RNS	20.5	ug/L
ITLR	10-12-8	Plutonium-239/240	RNS	0.03722	pCi/L
SCTK	10-12-8	Plutonium-239/240	RNS	-0.002	pCi/L
ITLSL	7782-49-2	Selenium	RNS	2	ug/L
ITLSL	7440-22-4	Silver	RNS	11.9	ug/L
ITLSL	7440-31-5	Tin	RNS	234	ug/L
ITLR	11-08-5	Uranium-234	RNS	0.2667	pCi/L
SCTK	11-08-5	Uranium-234	RNS	-0.486	pCi/L

Laboratory	CAS No.	Analyte	Sample QC Code	Detected Result	Unit
ITLR	15117-96-1	Uranium-235	RNS	0.1307	pCi/L
SCTK	15117-96-1	Uranium-235	RNS	0.0432	pCi/L
SCTK	7440-61-1	Uranium-238	RNS	0.0864	pCi/L
ITLR	7440-61-1	Uranium-238	RNS	0.1457	pCi/L
ITLSL	7440-66-6	Zinc	RNS	98.1	ug/L

Field blank (RNS = rinse) results greater than detection limits (not "U" qualified).

Sample Matrix Spike Evaluation

The minimum and maximum MS results are summarized by chemical for the entire project in Table 21. Organic analytes with unacceptably low recoveries resulted in a review of the LCS recoveries. According to the EPA data validation guidelines (EPA 1994b), if organic MS recoveries are low, the data reviewer may use the MS and MSD results in conjunction with other QC criteria. For this project, the LCS recoveries were checked, and these checks indicate no decisions were impacted for organic analytes. For inorganics, the associated maximum sample results were divided by the lowest percent recovery for each analyte. If the resulting number was less than the AL, decisions were not impacted, and no action was taken. For this project, all results were acceptable. While some metal recoveries (antimony, iron, and manganese) were low for some analytical methods, real results were an order of magnitude less than WRW soil ALs and did not impact project decisions. Low recoveries of 2,4-dinotrophenol, 4,6-dinitro-2-methylphenol, and benzoic acid did not affect project decisions.

Table 21
Sample MS Evaluation Summary

Test Method	CAS No.	Analyte	Minimum Percent Recovery	Maximum Percent Recovery	No. of Samples	No. of Lab Batches
SW-846 8260	71-55-6	1,1,1-Trichloroethane	81	81	1	1
SW-846 8260	79-34-5	1,1,2,2-Tetrachloroethane	96	96	1	1
SW-846 8260	79-00-5	1,1,2-Trichloroethane	87	87	1	1
SW-846 8260	75-34-3	1,1-Dichloroethane	79	79	1	1
CLP-SOWMEDIUM LEVEL SOIL METHO	75-35-4	1,1-Dichloroethene	93	93	1	1
SW-846 8260	75-35-4	1,1-Dichloroethene	78	90	2	2
SW-846 8260	120-82-1	1,2,4-Trichlorobenzene	66	66	1	1
SW-846 8270	120-82-1	1,2,4-Trichlorobenzene	57	70	4	4
SW-846 8260	95-50-1	1,2-Dichlorobenzene	80	80	1	1
SW-846 8260	107-06-2	1,2-Dichloroethane	81	81	1	1
SW-846 8260	78-87-5	1,2-Dichloropropane	81	81	1	1
SW-846 8260	106-46-7	1,4-Dichlorobenzene	80	80	1	1
SW-846 8270	95-95-4	2,4,5-Trichlorophenol	61	80	4	4
SW-846 8270	88-06-2	2,4,6-Trichlorophenol	57	82	4	4
SW-846 8270	120-83-2	2,4-Dichlorophenol	58	74	4	4
SW-846 8270	105-67-9	2,4-Dimethylphenol	57	75	4	4

Test Method	CAS No.	Analyte	Minimum Percent Recovery	Maximum Percent Recovery	No. of Samples	No. of Lab Batches
SW-846 8270	51-28-5	2,4-Dinitrophenol	23	46	4	4
SW-846 8270	121-14-2	2,4-Dinitrotoluene	64	88	4	4
SW-846 8270	606-20-2	2,6-Dinitrotoluene	58	84	4	4
SW-846 8260	78-93-3	2-Butanone	77	77	1	1
SW-846 8270	91-58-7	2-Chloronaphthalene	56	77	4	4
SW-846 8270	95-57-8	2-Chlorophenol	59	75	4	4
SW-846 8270	91-57-6	2-Methylnaphthalene	60	73	4	4
SW-846 8270	95-48-7	2-Methylphenol	59	75	4	4
SW-846 8270	88-74-4	2-Nitroaniline	56	77	4	4
SW-846 8270	91-94-1	3,3'-Dichlorobenzidine	19	57	4	4
SW-846 8270	534-52-1	4,6-Dinitro-2-methylphenol	17	54	4	4
SW-846 8270	106-47-8	4-Chloroaniline	23	54	4	4
SW-846 8260	108-10-1	4-Methyl-2-pentanone	83	83	1	1
SW-846 8270	106-44-5	4-Methylphenol	61	77	4	4
SW-846 8270	100-02-7	4-Nitrophenol	59	97	4	4
SW-846 8270	83-32-9	Acenaphthene	57	74	4	4
SW-846 8260	67-64-1	Acetone	72	72	1	1
SW-846 6010	7429-90-5	Aluminum	4320	8460	9	9
SW-846 6010/6010B	7429-90-5	Aluminum	1906.6	2464.4	2	2
SW-846 8270	120-12-7	Anthracene	58	79	4	4
CLP-SOW-TOTAL	7440-36-0	Antimony	13.9	13.9	1	1
SW-846 6010	7440-36-0	Antimony	33	48	9	9
SW-846 6010/6010B	7440-36-0	Antimony	26.1	32.5	2	2
SW-846 8082	12674-11-2	Aroclor-1016	76	176	7	7
SW-846 8082	11096-82-5	Aroclor-1260	86	191	7	7
CLP-SOW-TOTAL	7440-38-2	Arsenic	78.6	78.6	1	1
SW-846 6010	7440-38-2	Arsenic	89	100	9	9
SW-846 6010/6010B	7440-38-2	Arsenic	85.2	88.9	2	2
CLP-SOW-TOTAL	7440-39-3	Barium	75.4	75.4	1	1
SW-846 6010	7440-39-3	Barium	99	119	9	9
SW-846 6010/6010B	7440-39-3	Barium	81.7	147.8	2	2
CLP-SOWMEDIUM LEVEL SOIL METHO	71-43-2	Benzene	90	90	1	1
SW-846 8260	71-43-2	Benzene	76	83	2	2
SW-846 8270	56-55-3	Benzo(a)anthracene	56	77	4	4
SW-846 8270	50-32-8	Benzo(a)pyrene	56	78	4	4
SW-846 8270	205-99-2	Benzo(b)fluoranthene	60	78	4	4
SW-846 8270	207-08-9	Benzo(k)fluoranthene	54	83	4	4
SW-846 8270	65-85-0	Benzoic Acid	0	53	4	4
SW-846 8270	100-51-6	Benzyl Alcohol	54	75	4	4
CLP-SOW-TOTAL	7440-41-7	Beryllium	78.7	78.7	1	1
SW-846 6010	7440-41-7	Beryllium	96	104	9	9

Test Method	CAS No.	Analyte	Minimum Percent Recovery	Maximum Percent Recovery	No. of Samples	No. of Lab Batches
SW-846 6010/6010B	7440-41-7	Beryllium	95.3	96	2	2
SW-846 8270	111-44-4	bis(2-Chloroethyl)ether	54	74	4	4
SW-846 8270	39638-32-9	bis(2-Chloroisopropyl)ether	55	76	4	4
SW-846 8270	117-81-7	bis(2-Ethylhexyl)phthalate	58	86	4	4
SW-846 8260	75-27-4	Bromodichloromethane	83	83	1	1
SW-846 8260	75-25-2	Bromoform	86	86	1	1
SW-846 8260	74-83-9	Bromomethane	91	91	1	1
SW-846 8270	85-68-7	Butylbenzylphthalate	59	82	4	4
CLP-SOW-TOTAL	7440-43-9	Cadmium	80.7	80.7	1	1
SW-846 6010	7440-43-9	Cadmium	92	101	9	9
SW-846 6010/6010B	7440-43-9	Cadmium	94.5	97.3	2	2
SW-846 8260	75-15-0	Carbon Disulfide	67	67	1	1
SW-846 8260	56-23-5	Carbon Tetrachloride	79	79	1	1
CLP-SOWMEDIUM LEVEL SOIL METHO	108-90-7	Chlorobenzene	92	92	1	1
SW-846 8260	108-90-7	Chlorobenzene	78	87	2	2
SW-846 8260	75-00-3	Chloroethane	92	92	1	1
SW-846 8260	67-66-3	Chloroform	84	84	1	1
SW-846 8260	74-87-3	Chloromethane	91	91	1	1
CLP-SOW-TOTAL	7440-47-3	Chromium	83.9	83.9	1	1
SW-846 6010	7440-47-3	Chromium	122	156	9	9
SW-846 6010/6010B	7440-47-3	Chromium	107.4	118.2	2	2
SW-846 8270	218-01-9	Chrysene	54	75	4	4
SW-846 8260	10061-01-5	cis-1,3-Dichloropropene	82	82	1	1
CLP-SOW-TOTAL	7440-48-4	Cobalt	80	80	1	1
SW-846 6010	7440-48-4	Cobalt	92	102	9	9
SW-846 6010/6010B	7440-48-4	Cobalt	89.4	94.3	2	2
CLP-SOW-TOTAL	7440-50-8	Copper	80	80	1	1
SW-846 6010	7440-50-8	Copper	90	108	9	9
SW-846 6010/6010B	7440-50-8	Copper	89.9	90.8	2	2
SW-846 8270	84-74-2	Di-n-butylphthalate	62	83	4	4
SW-846 8270	117-84-0	Di-n-octylphthalate	59	79	4	4
SW-846 8270	53-70-3	Dibenz(a,h)anthracene	54	75	4	4
SW-846 8270	132-64-9	Dibenzofuran	61	80	4	4
SW-846 8260	124-48-1	Dibromochloromethane	86	86	1	1
SW-846 8270	84-66-2	Diethylphthalate	64	81	4	4
SW-846 8270	131-11-3	Dimethylphthalate	62	78	4	4
SW-846 8260	100-41-4	Ethylbenzene	90	90	1	1
SW-846 8270	206-44-0	Fluoranthene	61	80	4	4
SW-846 8270	86-73-7	Fluorene	58	78	4	4
SW-846 8270	118-74-1	Hexachlorobenzene	57	81	4	4
SW-846 8260	87-68-3	Hexachlorobutadiene	64	64	1	1

Test Method	CAS No.	Analyte	Minimum Percent Recovery	Maximum Percent Recovery	No. of Samples	No. of Lab Batches
SW-846 8270	87-68-3	Hexachlorobutadiene	56	71	4	4
SW-846 8270	77-47-4	Hexachlorocyclopentadiene	0	51	4	4
SW-846 8270	67-72-1	Hexachloroethane	13	56	4	4
SW-846 8270	193-39-5	Indeno(1,2,3-cd)pyrene	54	73	4	4
SW-846 6010	7439-89-6	Iron	0	5590	9	9
SW-846 6010/6010B	7439-89-6	Iron	-2779.7	155.6	2	2
SW-846 8270	78-59-1	Isophorone	58	72	4	4
CLP-SOW-TOTAL	7439-92-1	Lead	79	79	1	1
SW-846 6010	7439-92-1	Lead	76	100	9	9
SW-846 6010/6010B	7439-92-1	Lead	80.5	94.6	2	2
CLP-SOW-TOTAL	7439-93-2	Lithium	103	103	1	1
SW-846 6010	7439-93-2	Lithium	99	108	9	9
SW-846 6010/6010B	7439-93-2	Lithium	82.9	104.1	2	2
CLP-SOW-TOTAL	7439-96-5	Manganese	84.7	84.7	1	1
SW-846 6010	7439-96-5	Manganese	0	191	9	9
SW-846 6010/6010B	7439-96-5	Manganese	-105.1	58.4	2	2
SW-846 6010	7439-97-6	Mercury	89	105	12	12
SW-846 6010/6010B	7439-97-6	Mercury	92.2	94.9	2	2
SW-846 8260	75-09-2	Methylene chloride	81	81	1	1
CLP-SOW-TOTAL	7439-98-7	Molybdenum	70.8	70.8	1	1
SW-846 6010	7439-98-7	Molybdenum	88	97	9	9
SW-846 6010/6010B	7439-98-7	Molybdenum	83.3	84.1	2	2
SW-846 8270	86-30-6	n-Nitrosodiphenylamine	65	114	4	4
SW-846 8270	621-64-7	n-Nitrosodipropylamine	57	76	4	4
SW-846 8260	91-20-3	Naphthalene	64	64	1	1
SW-846 8270	91-20-3	Naphthalene	55	71	4	4
CLP-SOW-TOTAL	7440-02-0	Nickel	80.7	80.7	1	1
SW-846 6010	7440-02-0	Nickel	90	105	9	9
SW-846 6010/6010B	7440-02-0	Nickel	84.4	90.7	2	2
SW-846 8270	98-95-3	Nitrobenzene	56	74	4	4
SW-846 8270	87-86-5	Pentachlorophenol	57	73	4	4
SW-846 8270	108-95-2	Phenol	61	77	4	4
SW-846 8270	129-00-0	Pyrene	54	82	4	4
CLP-SOW-TOTAL	7782-49-2	Selenium	73.7	73.7	1	1
SW-846 6010	7782-49-2	Selenium	87	98	9	9
SW-846 6010/6010B	7782-49-2	Selenium	83.5	89.5	2	2
CLP-SOW-TOTAL	7440-22-4	Silver	82.2	82.2	1	1
SW-846 6010	7440-22-4	Silver	0	112	10	10
SW-846 6010/6010B	7440-22-4	Silver	91.8	100.3	2	2
CLP-SOW-TOTAL	7440-24-6	Strontium	79.5	79.5	1	1
SW-846 6010	7440-24-6	Strontium	80	108	9	9
SW-846 6010/6010B	7440-24-6	Strontium	92.6	120	2	2

Test Method	CAS No.	Analyte	Minimum Percent Recovery	Maximum Percent Recovery	No. of Samples	No. of Lab Batches
SW-846 8260	100-42-5	Styrene	90	90	1	1
SW-846 8260	127-18-4	Tetrachloroethene	83	83	1	1
CLP-SOW-TOTAL	7440-31-5	Tin	65.1	65.1	1	1
SW-846 6010	7440-31-5	Tin	87	95	9	9
SW-846 6010/6010B	7440-31-5	Tin	88.5	90.5	2	2
CLP-SOWMEDIUM LEVEL SOIL METHO	108-88-3	Toluene	95	95	1	1
SW-846 8260	108-88-3	Toluene	74	90	2	2
SW-846 8260	10061-02-6	trans-1,3-Dichloropropene	90	90	1	1
CLP-SOWMEDIUM LEVEL SOIL METHO	79-01-6	Trichloroethene	99	99	1	1
SW-846 8260	79-01-6	Trichloroethene	74	77	2	2
SW-846 6010	11-09-6	Uranium, Total	92	104	9	9
SW-846 6010/6010B	11-09-6	Uranium, Total	90.5	102.3	2	2
CLP-SOW-TOTAL	7440-62-2	Vanadium	93.4	93.4	1	1
SW-846 6010	7440-62-2	Vanadium	111	153	9	9
SW-846 6010/6010B	7440-62-2	Vanadium	124.1	133.2	2	2
SW-846 8260	75-01-4	Vinyl chloride	88	88	1	1
SW-846 8260	1330-20-7	Xylene	90	90	1	1
CLP-SOW-TOTAL	7440-66-6	Zinc	71	71	1	1
SW-846 6010	7440-66-6	Zinc	47	137	9	9
SW-846 6010/6010B	7440-66-6	Zinc	48.8	82.9	2	2

6.2.2 Precision

Precision is measured by evaluating both MSDs and field duplicates, as described in the following sections.

Sample Matrix Spike Duplicate Evaluation

Laboratory precision is measured through use of MSDs, as summarized in Table 22. Analytes with the highest relative percent differences (RPDs) were reviewed by comparing the highest sample result to the RFCA WRW soil AL. For analytes with RPDs greater than 35 percent, if the highest sample concentrations were sufficiently below the ALs, no further action is needed. Review of analytes listed on Table 22 with a RPD of greater than 35 percent indicated decisions were not impacted.

Table 22
Sample MSD Evaluation Summary

Test Method	CAS No.	Analyte	Max RPD (%)
SW-846 8260	71-55-6	1,1,1-Trichloroethane	3.64
SW-846 8260	79-34-5	1,1,2,2-Tetrachloroethane	5.08

Test Method	CAS No.	Analyte	Max RPD (%)
SW-846 8260	79-00-5	1,1,2-Trichloroethane	2.27
SW-846 8260	75-34-3	1,1-Dichloroethane	3.73
SW-846 8260	75-35-4	1,1-Dichloroethene	6.45
SW-846 8270	120-82-1	1,2,4-Trichlorobenzene	20.47
SW-846 8260	120-82-1	1,2,4-Trichlorobenzene	11.20
SW-846 8260	95-50-1	1,2-Dichlorobenzene	2.53
SW-846 8260	107-06-2	1,2-Dichloroethane	2.44
SW-846 8260	78-87-5	1,2-Dichloropropane	3.64
SW-846 8260	106-46-7	1,4-Dichlorobenzene	3.68
SW-846 8270	95-95-4	2,4,5-Trichlorophenol	13.74
SW-846 8270	88-06-2	2,4,6-Trichlorophenol	11.61
SW-846 8270	120-83-2	2,4-Dichlorophenol	14.40
SW-846 8270	105-67-9	2,4-Dimethylphenol	17.60
SW-846 8270	51-28-5	2,4-Dinitrophenol	32.73
SW-846 8270	121-14-2	2,4-Dinitrotoluene	13.14
SW-846 8270	606-20-2	2,6-Dinitrotoluene	14.40
SW-846 8260	78-93-3	2-Butanone	9.88
SW-846 8270	91-58-7	2-Chloronaphthalene	17.89
SW-846 8270	95-57-8	2-Chlorophenol	17.05
SW-846 8270	91-57-6	2-Methylnaphthalene	18.18
SW-846 8270	95-48-7	2-Methylphenol	15.63
SW-846 8270	88-74-4	2-Nitroaniline	16.39
SW-846 8270	91-94-1	3,3'-Dichlorobenzidine	10.00
SW-846 8270	534-52-1	4,6-Dinitro-2-methylphenol	53.85
SW-846 8270	106-47-8	4-Chloroaniline	13.86
SW-846 8260	108-10-1	4-Methyl-2-pentanone	6.98
SW-846 8270	106-44-5	4-Methylphenol	16.54
SW-846 8270	100-02-7	4-Nitrophenol	15.63
SW-846 8270	83-32-9	Acenaphthene	16.13
SW-846 8260	67-64-1	Acetone	6.71
SW-846 6010	7429-90-5	Aluminum	30.57
SW-846 8270	120-12-7	Anthracene	17.32
SW-846 6010	7440-36-0	Antimony	16.22
SW-846 8082	12674-11-2	Aroclor-1016	38.64
SW-846 8082	11096-82-5	Aroclor-1260	18.78
SW-846 6010	7440-38-2	Arsenic	2.17
SW-846 6010	7440-39-3	Barium	26.09
SW-846 8260	71-43-2	Benzene	8.81
SW-846 8270	56-55-3	Benzo(a)anthracene	13.33
SW-846 8270	50-32-8	Benzo(a)pyrene	14.88
SW-846 8270	205-99-2	Benzo(b)fluoranthene	12.50
SW-846 8270	207-08-9	Benzo(k)fluoranthene	18.49
SW-846 8270	65-85-0	Benzoic Acid	200.00
SW-846 8270	100-51-6	Benzyl Alcohol	15.38
SW-846 6010	7440-41-7	Beryllium	5.88
SW-846 8270	111-44-4	bis(2-Chloroethyl)ether	19.35
SW-846 8270	39638-32-9	bis(2-Chloroisopropyl)ether	19.55
SW-846 8270	117-81-7	bis(2-Ethylhexyl)phthalate	14.40

Test Method	CAS No.	Analyte	Max RPD (%)
SW-846 8260	75-27-4	Bromodichloromethane	2.38
SW-846 8260	75-25-2	Bromoform	2.30
SW-846 8260	74-83-9	Bromomethane	2.17
SW-846 8270	85-68-7	Butylbenzylphthalate	15.63
SW-846 6010	7440-43-9	Cadmium	4.17
SW-846 8260	75-15-0	Carbon Disulfide	1.50
SW-846 8260	56-23-5	Carbon Tetrachloride	4.94
SW-846 8260	108-90-7	Chlorobenzene	9.76
SW-846 8260	75-00-3	Chloroethane	1.08
SW-846 8260	67-66-3	Chloroform	2.35
SW-846 8260	74-87-3	Chloromethane	1.09
SW-846 6010	7440-47-3	Chromium	9.19
SW-846 8270	218-01-9	Chrysene	13.79
SW-846 8260	10061-01-5	cis-1,3-Dichloropropene	1.21
SW-846 6010	7440-48-4	Cobalt	4.12
SW-846 6010	7440-50-8	Copper	10.10
SW-846 8270	84-74-2	Di-n-butylphthalate	14.93
SW-846 8270	117-84-0	Di-n-octylphthalate	15.63
SW-846 8270	53-70-3	Dibenz(a,h)anthracene	13.79
SW-846 8270	132-64-9	Dibenzofuran	13.74
SW-846 8260	124-48-1	Dibromochloromethane	1.16
SW-846 8270	84-66-2	Diethylphthalate	13.14
SW-846 8270	131-11-3	Dimethylphthalate	14.93
SW-846 8260	100-41-4	Ethylbenzene	1.10
SW-846 8270	206-44-0	Fluoranthene	16.54
SW-846 8270	86-73-7	Fluorene	15.87
SW-846 8270	118-74-1	Hexachlorobenzene	14.63
SW-846 8270	87-68-3	Hexachlorobutadiene	19.35
SW-846 8260	87-68-3	Hexachlorobutadiene	24.56
SW-846 8270	77-47-4	Hexachlorocyclopentadiene	22.61
SW-846 8270	67-72-1	Hexachloroethane	19.35
SW-846 8270	193-39-5	Indeno(1,2,3-cd)pyrene	13.79
SW-846 6010	7439-89-6	Iron	77.25
SW-846 8270	78-59-1	Isophorone	20.16
SW-846 6010	7439-92-1	Lead	16.27
SW-846 6010	7439-93-2	Lithium	7.27
SW-846 6010	7439-96-5	Manganese	200.00
SW-846 6010	7439-97-6	Mercury	3.14
SW-846 8260	75-09-2	Methylene chloride	1.23
SW-846 6010	7439-98-7	Molybdenum	3.28
SW-846 8270	86-30-6	n-Nitrosodiphenylamine	14.29
SW-846 8270	621-64-7	n-Nitrosodipropylamine	19.26
SW-846 8270	91-20-3	Naphthalene	18.18
SW-846 8260	91-20-3	Naphthalene	1.57
SW-846 6010	7440-02-0	Nickel	4.35
SW-846 8270	98-95-3	Nitrobenzene	17.60
SW-846 8270	87-86-5	Pentachlorophenol	14.63
SW-846 8270	108-95-2	Phenol	13.74

Test Method	CAS No.	Analyte	Max RPD (%)
SW-846 8270	129-00-0	Pyrene	15.38
SW-846 6010	7782-49-2	Selenium	2.33
SW-846 6010	7440-22-4	Silver	200.00
SW-846 6010	7440-24-6	Strontium	7.84
SW-846 8260	100-42-5	Styrene	3.39
SW-846 8260	127-18-4	Tetrachloroethene	1.20
SW-846 6010	7440-31-5	Tin	3.21
SW-846 8260	108-88-3	Toluene	7.79
SW-846 8260	10061-02-6	trans-1,3-Dichloropropene	1.10
SW-846 8260	79-01-6	Trichloroethene	10.26
SW-846 6010	11-09-6	Uranium, Total	3.21
SW-846 6010	7440-62-2	Vanadium	10.45
SW-846 8260	75-01-4	Vinyl chloride	1.13
SW-846 8260	1330-20-7	Xylene	1.12
SW-846 6010	7440-66-6	Zinc	89.23

Field Duplicate Evaluation

Field duplicate results reflect sampling precision, or overall repeatability of the sampling process. The frequency of field duplicate collection should exceed 1 field duplicate per 20 real samples, or 5 percent. Table 23 indicates field duplicate frequencies were inadequate for some metals (SW846 6010/6010B) and SVOCs (SW-846 8270B) methods. However, project decisions were not impacted because field duplicate frequency was adequate for analytes of interest including radionuclides, PCBs (PESTCLP), and metals. Field duplicate frequencies were low for recent PCB (SW-846 8082) and SVOC (SW-846-8270) sampling, however, these data are reported for all samples including boreholes. On a location basis, five percent frequency was achieved.

Table 23
Field Duplicate Sample Frequency Summary

Test Method Name	Number of Real Samples	Number of Duplicate Samples	% Duplicate Samples
ALPHA SPEC	78	6	7.69%
BNACLP	39	4	10.26%
CLP-SOW-TOTAL	2	0	0.00%
CLP-SOWMEDIUM LEVEL SOIL METHOD	2	0	0.00%
GAMMA SPECTROSCOPY	52	3	5.77%
METADD	39	4	10.26%
METCLP	2	0	0.00%
PCB8080C	25	0	0.00%
PESTCLP	42	4	9.52%
SMETCLP	39	4	10.26%
SW-846 6010	70	6	8.57%

Test Method Name	Number of Real Samples	Number of Duplicate Samples	% Duplicate Samples
SW-846 6010/6010B	16	0	0.00%
SW-846 6200	8	0	0.00%
SW-846-8080	39	1	2.56%
SW-846 8260	25	0	0.00%
SW-846 8270	39	1	2.56%
SW-846 8290	9	0	0.00%
TRADS	48	4	8.33%
VOACLP	36	3	8.33%

The field duplicate RPD values indicate how much variation exists in the field duplicate analyses. EPA data validation guidelines state "there are no required review criteria for field duplicate analyses comparability" (EPA 1994b). For the DQA, the highest RPD values were reviewed (Table 24). Several metal RPDs including aluminum, arsenic, barium, cadmium, chromium, cobalt, copper, iron, lead, lithium, manganese, nickel, strontium, vanadium, and zinc were greater than 35 percent. For the metals this is likely due to sample heterogeneity. For other analytes with RPDs greater than 35 percent, if the highest sample concentrations were sufficiently below the AL, no further action is needed. For this project, the review indicated decisions were not impacted.

Table 24
RPD Evaluation Summary

Lab Code	Test Method	Analyte	Max RPD (%)
ESTLDEN	SW-846 6010	Aluminum	151.85
ITLSL	SMETCLP	Aluminum	22.72
ITLO	TRADS	Americium-241	48.72
ITLR	TRADS	Americium-241	190.45
ESTLDEN	ALPHA SPEC	Americium-241	15.61
ESTLDEN	SW-846 6010	Arsenic	72.11
ESTLDEN	SW-846 6010	Barium	106.71
ESTLDEN	SW-846 6010	Cadmium	92.54
ESTLDEN	SW-846 6010	Chromium	125.93
ITLSL	SMETCLP	Chromium	30.71
ESTLDEN	SW-846 6010	Cobalt	68.46
ESTLDEN	SW-846 6010	Copper	143.95
ESTLDEN	SW-846 6010	Iron	114.96
ITLSL	SMETCLP	Iron	7.32
ITLSL	SMETCLP	Lead	28.07
ESTLDEN	SW-846 6010	Lead	110.68
ESTLDEN	SW-846 6010	Lithium	145.95
ESTLDEN	SW-846 6010	Manganese	144.50
ITLSL	SMETCLP	Manganese	9.61

Lab Code	Test Method	Analyte	Max RPD (%)
ESTLDEN	SW-846 6010	Mercury	25.32
ESTLDEN	SW-846 6010	Nickel	85.71
ESTLDEN	ALPHA SPEC	Plutonium-239/240	119.84
ITLR	TRADS	Plutonium-239/240	197.96
ITLO	TRADS	Plutonium-239/240	21.05
ESTLDEN	SW-846 6010	Strontium	137.86
ITLSL	VOACLP	Toluene	66.67
ITLO	TRADS	Uranium-234	7.27
ITLR	TRADS	Uranium-234	180.11
ESTLDEN	ALPHA SPEC	Uranium-234	7.06
ESTLDEN	ALPHA SPEC	Uranium-238	30.12
ITLR	TRADS	Uranium-238	49.91
ITLO	TRADS	Uranium-238	5.77
ESTLDEN	SW-846 6010	Vanadium	118.52
ESTLDEN	SW-846 6010	Zinc	168.79
ITLSL	SMETCLP	Zinc	15.38

6.2.3 Completeness

Based on original project DQOs, a minimum of 25 percent of Environmental Restoration (ER) Program analytical (and radiological) results must be formally verified and validated. Of that percentage, no more than 10 percent of the results may be rejected, which ensures that analytical laboratory practices are consistent with quality requirements. The number and percentage of validated records (codes without "1"), the number and percentage of verified records (codes with "1"), and the percentage of rejected records for each analyte group for this project are listed in Table 25.

Four hundred and thirty one records out of 23,669 (1.82 percent) total records were rejected. None of the rejected records affected project decisions. For this project, 38.17 percent of the analyses were validated. This exceeds the overall ER Program V&V goal of 25 percent.

Table 25
Validation and Verification Summary

Validation Qualifier Code	Total Number of Results	Dioxins and Furans	Metals	Pesticides & PCBs	Radionuclides	SVOCs	VOCs
No V&V	83	0	30	35	12	0	1
1	12	0	12	0	0	0	0
A	342	0	0	12	183	125	22
J	563	0	427	1	0	7	123
J1	421	1	403	0	12	0	5
JB	26	0	0	0	0	0	26

Validation Qualifier Code	Total Number of Results	Dioxins and Furans	Metals	Pesticides & PCBs	Radionuclides	SVOCs	VOCs
JB1	9	0	0	0	0	0	9
R	306	0	20	70	13	117	68
R1	8	0	8	0	0	0	0
UJ	55	0	7	0	0	0	48
UJ1	136	0	81	0	0	0	55
V	5237	0	649	1067	182	1857	1477
V1	559	152	1409	238	419	0	2341
Z	75	0	0	75	0	0	0
Total	11832	153	3046	1498	821	2106	4175
Validated	6757	153	1103	1225	378	2106	1764
% Validated	57.11%	100.00%	36.21%	81.78%	46.04%	100.00%	42.25%
Verified	4992	0	1913	238	431	0	2410
% Verified	42.19%	0.00%	62.80%	15.89%	52.50%	0.00%	57.72%
Rejected	314	0	28	70	13	117	68
% Rejected	2.65%	0.00%	0.92%	4.67%	1.58%	5.56%	1.63%

6.2.4 Sensitivity

Reporting limits, in units of ug/kg for organics, mg/kg for metals, and pCi/g for radionuclides, were compared with RFCA WRW soil ALs. Adequate sensitivities of analytical methods were attained for all COCs that affect remediation decisions. "Adequate" sensitivity is defined as an RL less than an analyte's associated AL, typically less than one-half the AL.

6.3 Summary of Data Quality

The results of the DQA indicate, that although there is some variation in evaluated parameters, data is adequate for decision making. Some MS recoveries are low and some RPDs are greater than 35 percent generally associated with metals. These excursions may be indicative of sample heterogeneity especially associated with the sediment samples.

7.0 REFERENCES

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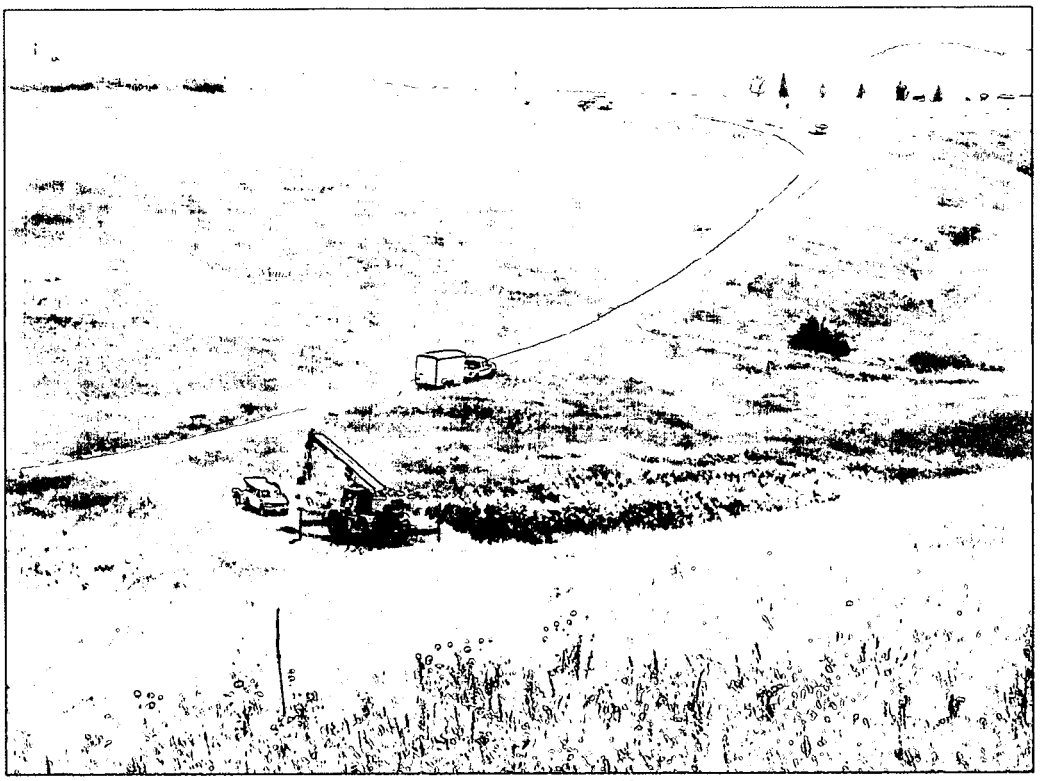
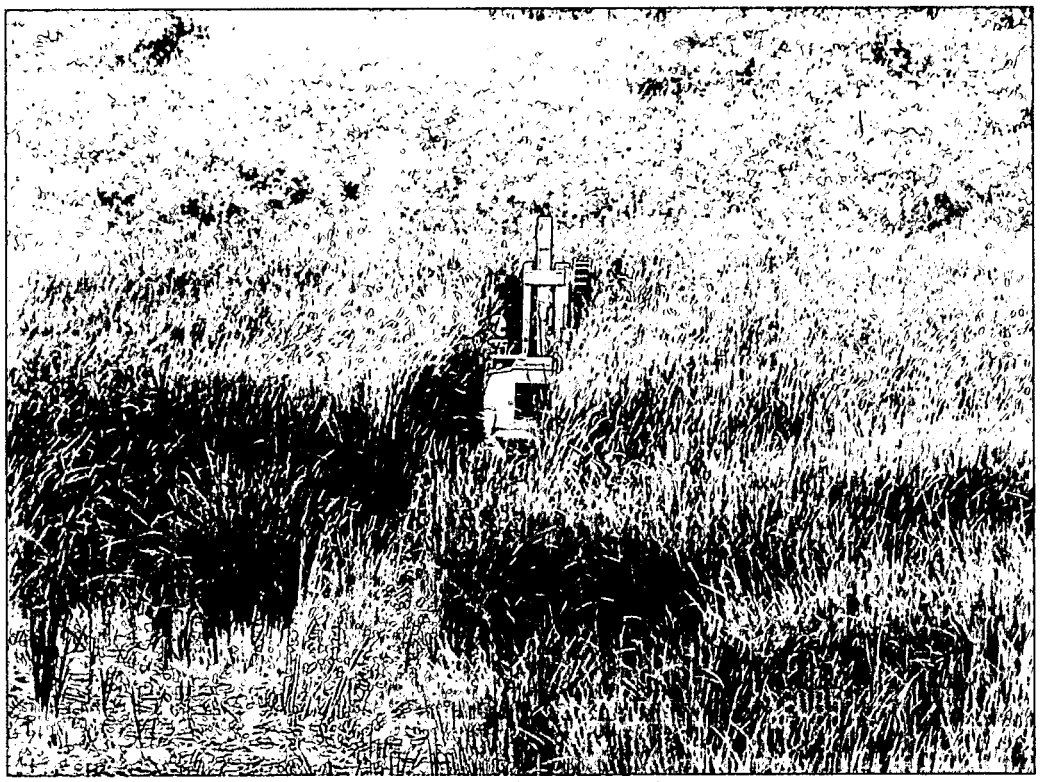
ENCLOSURE

Compact Disc Containing Standardized Real and QC Data

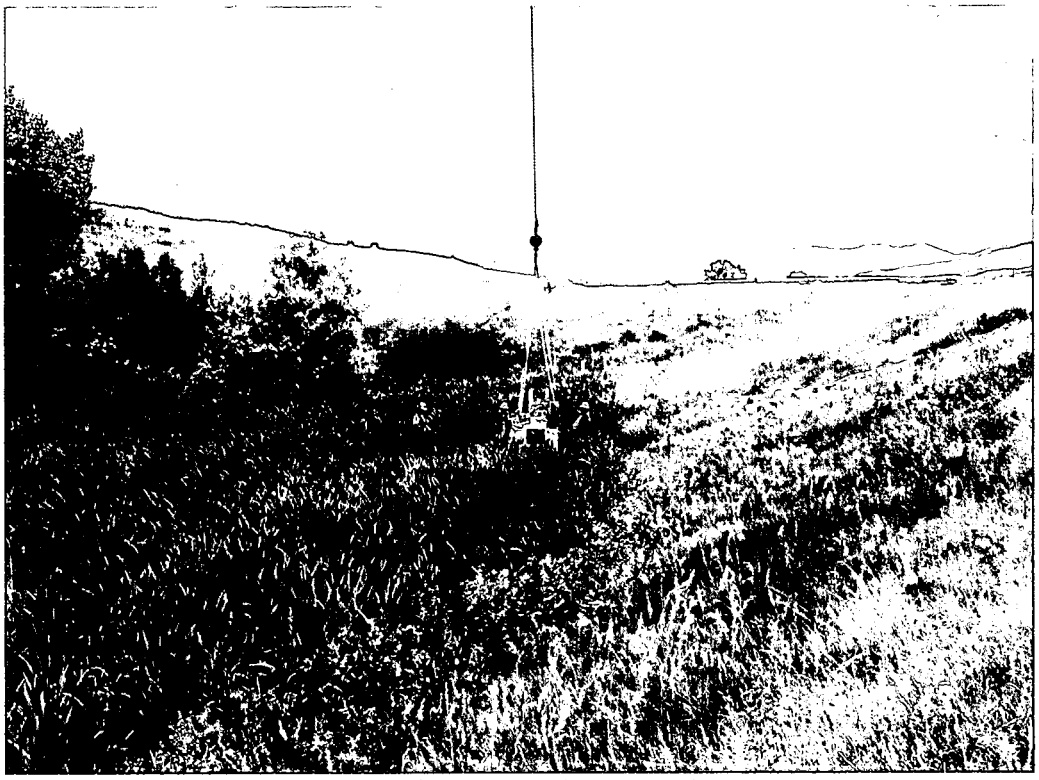
APPENDIX A
PROJECT PHOTOGRAPHS



Crane at Pond A-1 sampling area.

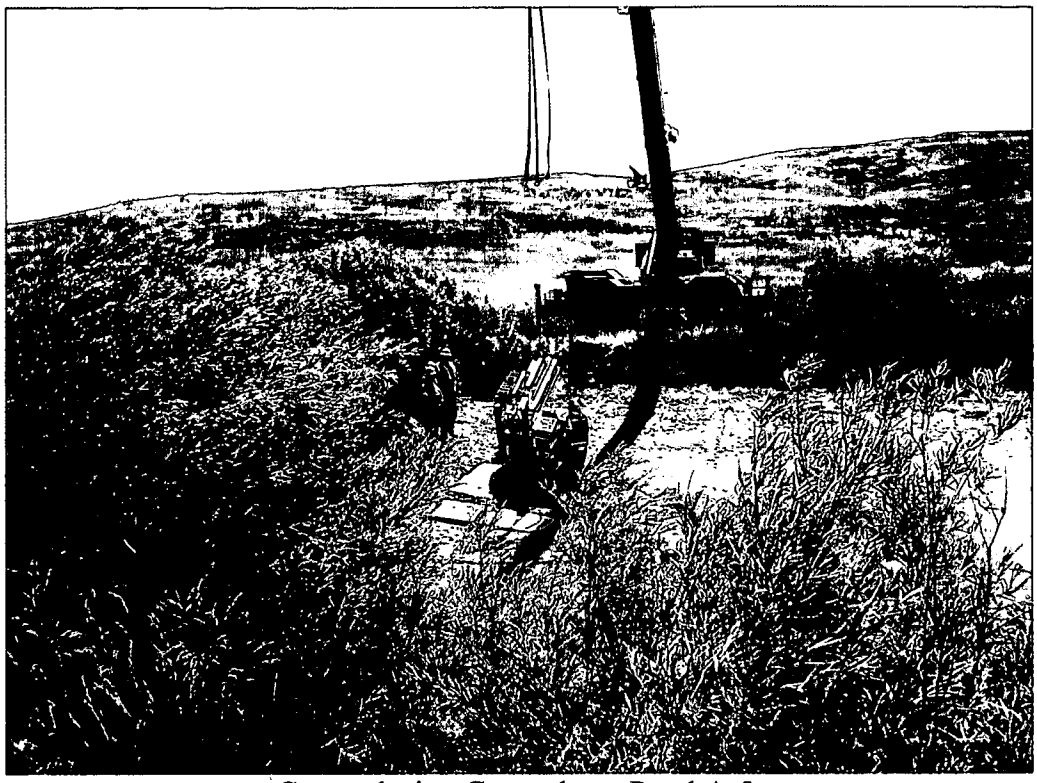


Geoprobe working at Pond A-1.

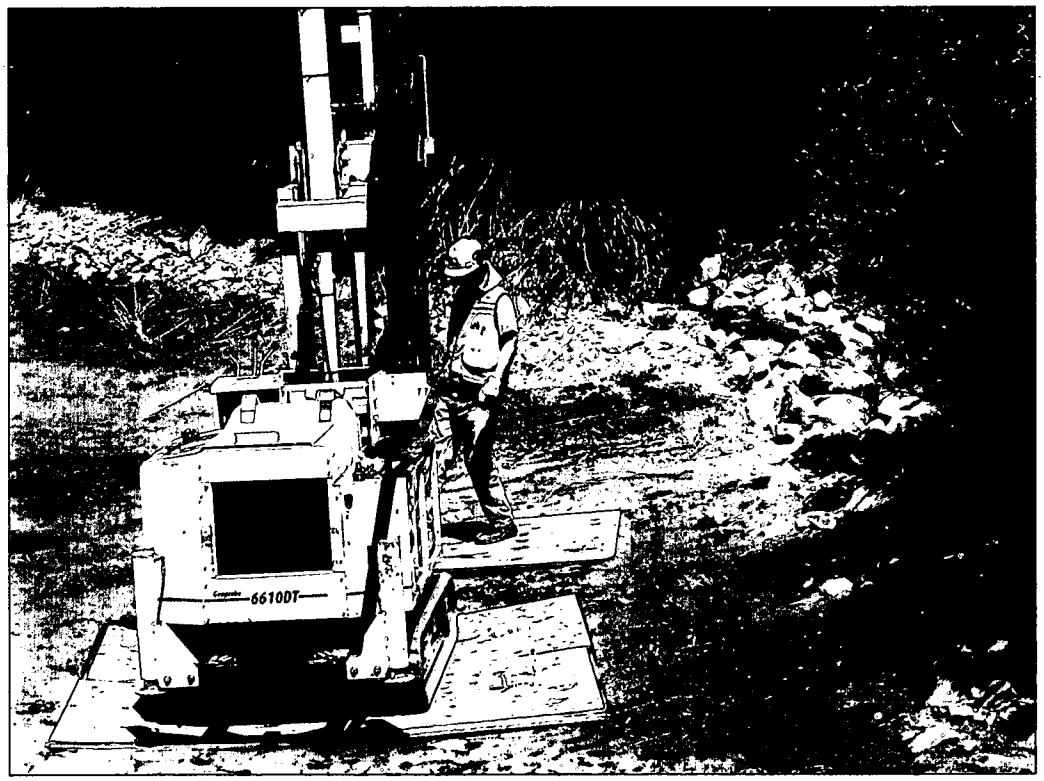


Crane placing Geoprobe at Pond B-4.

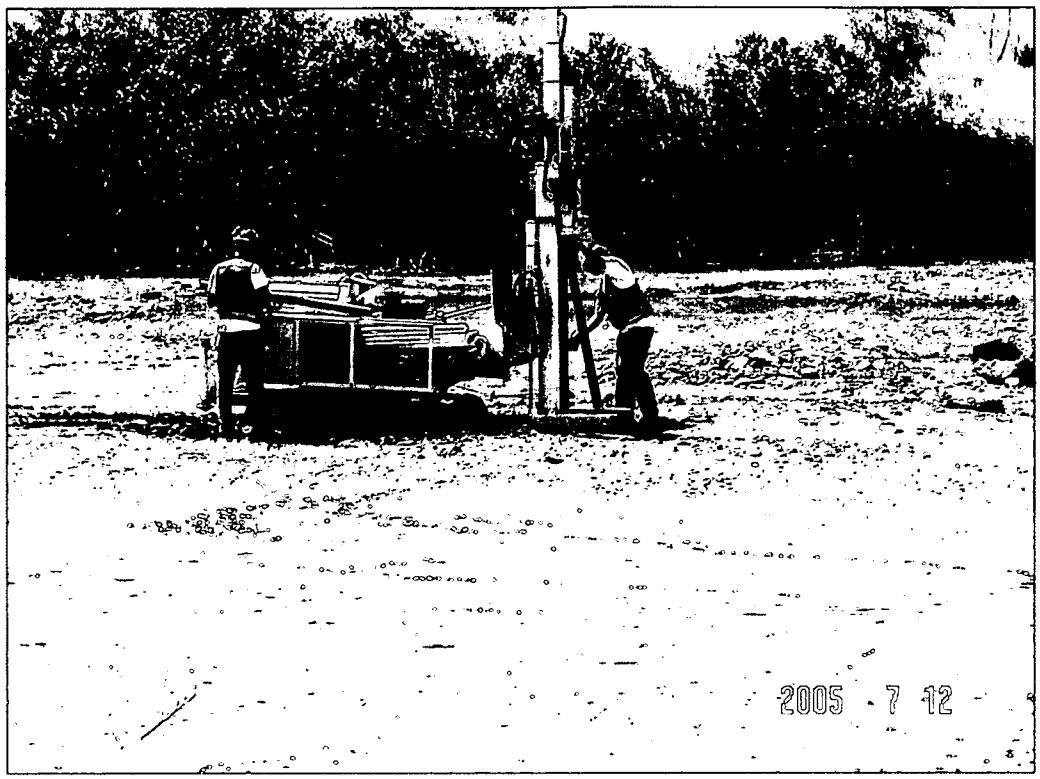
Geoprobe working at Pond B-4.



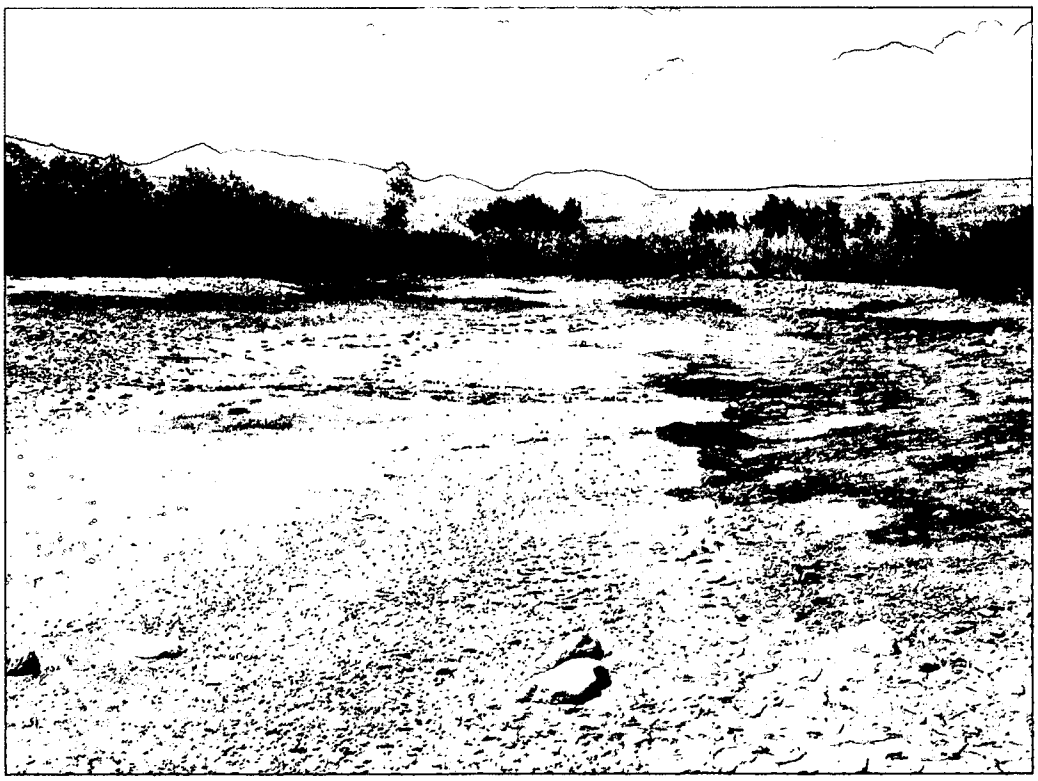
Crane placing Geoprobe at Pond A-5.



Geoprobe working at Pond A-5.



Geoprobe beginning to sample at Pond C-2.



Sediment at Pond C-2 inlet area (dry).

Appendix B
Regulatory Contact Records

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE
ER REGULATORY CONTACT RECORD

Date/Time:	07-06-05 / 13:00
Site Contact(s)/Phone:	DOE: Norma Castaneda/966-4226 K-H Team: Annette Primrose 994-2761
Regulatory Contact/Phone:	EPA: Sam Garcia/312-6247 & Larry Kimmel/312-6659 & Todd Bechtel/Greystone/850-0930 CDPHE: Harlen Ainscough/692-3337 & David Kruchek/ 692-3328 USFWS: Mark Sattelberg/966-5413, Amy Thornburg/966-5777 & Andrew Todd/966-2142
Agency:	EPA/CDPHE/USFWS

Purpose of Contact: Authorization to begin sediment sampling at Pond A-5

Discussion

It was agreed that sediment sampling at Pond A-5 would begin as discussed in the Biweekly Coordination Meeting on July 6, 2005. Locations for this very small pond will be as described in the Draft SAP for the Ponds provided earlier.

Surface samples will be collected from the inlet and near the center of the pond (see attached figure). The entire column of sediment will be collected from the pond area near the outlet. If the subsurface sampling shows that the sediment is more than 2 feet thick, then an additional subsurface sample will be collected within this pond. Sample locations may be modified or added based on actual field conditions to sample the potentially thickest sediment package in the designated areas. Modified locations will be based on the surface and topological features seen in the field as well as sampling near the inlet and deepest locations of these ponds.

Sampling will begin in advance of the draft Sampling and Analysis Plan Addendum approval to accommodate the ponds current condition (mostly drained). This pond will refill when the terminal ponds are discharged.

Contact Record Prepared By: Annette Primrose

Required Distribution:

M. Aguilar, USEPA
H. Ainscough, CDPHE
S. Bell, DOE-RFPO
J. Berardini, K-H
B. Birk, DOE-RFPO
L. Brooks, K-H ESS
L. Butler, K-H RISS
D. Mayo, K-H RISS
J. Mead, K-H ESS
S. Nesta, K-H RISS
L. Norland, K-H RISS
K. North, K-H ESS
E. Pottorff, CDPHE
A. Primrose, K-H RISS

Additional Distribution:

Robyn Blackburn/EPA/USFWS
Tracy Hammond/CDPHE

G. Carnival, K-H RISS	M. Roy, DOE-RFPO	_____
N. Castaneda, DOE-RFPO	R. Schassburger, DOE-RFPO	_____
C. Deck, K-H Legal	S. Serreze, K-H RISS	_____
N. Demos, SSOC	D. Shelton, K-H ESS	_____
S. Gunderson, CDPHE	C. Spreng, CDPHE	_____
M. Keating, K-H RISS	S. Surovchak, DOE-RFPO	_____
G. Kleeman, USEPA	J. Walstrom, K-H RISS	_____
D. Kruchek, CDPHE	K. Wiemelt, K-H RISS	_____
J. Legare, DOE-RFPO	C. Zahm, K-H Legal	_____

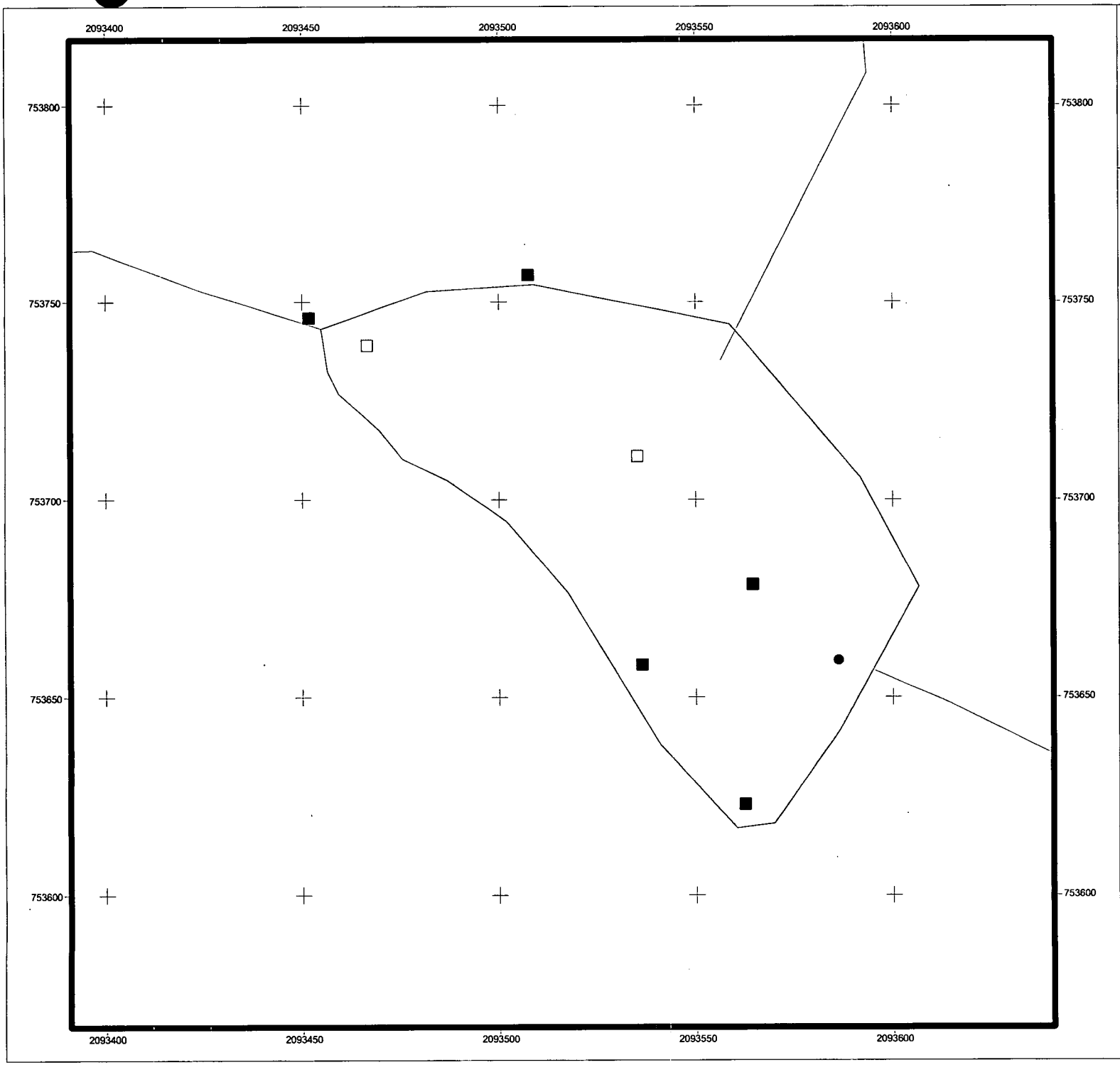


Figure 6
Pond A-5
Existing and Proposed New Sampling Locations

KEY

- Proposed Surface Sediment Sampling Location
- Proposed Borehole Sampling Location
- 2004 Sampling Location
- 1997 Sampling Location
- 1994 Sampling Location
- 1992 Sampling Location
- Topography
- Pond
- Stream
- Dirt Road

DRAFT

Topography not available

N
W E
S

10 0 10 20 30 Feet

Scale = 1:400

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared by: RADMS

Prepared for: KAISER•HILL COMPANY

Projects\Fy2005\ponds\addsampling.apr July 7, 2005

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE
ER REGULATORY CONTACT RECORD

Date/Time:	07-06-05 / 13:00
Site Contact(s)/Phone:	DOE: Norma Castaneda/966-4226 K-H Team: Karmen King/966-2303, Julie Keating/966-5205, Susan Serreze/966-2677, Karen Wiemelt/994-6239 & Diana Woods/994-4261
Regulatory Contact/Phone:	EPA: Sam Garcia/312-6247 & Larry Kimmel/312-6659 & Todd Bechtel/Greystone/850-0930 CDPHE: Harlen Ainscough/692-3337 & David Kruchek/ 692-3328 USFWS: Mark Sattelberg/966-5413, Amy Thornburg/966-5777 & Andrew Todd/966-2142
Agency:	EPA/CDPHE/USFWS

Purpose of Contact: Authorization to begin sediment sampling at Ponds A-1 and C-2

Discussion

It was agreed that sediment sampling at Ponds A-1 and C-2 would begin as discussed in the Biweekly Coordination Meeting on July 6, 2005. Approximate sampling locations were agreed to in the meeting and are shown on the attached two figures. Locations may be modified based on actual field conditions to sample the potentially thickest sediment package in the designated areas. Modified locations will be based on the surface and topological features seen in the field as well as sampling near the inlet and deepest locations of these ponds.

Sampling will begin in advance of the draft Sampling and Analysis Plan Addendum approval to accommodate the ponds current condition (drained). The draft Sampling and Analysis Plan Addendum will be submitted on July 7, 2005.

Contact Record Prepared By: Karen Wiemelt

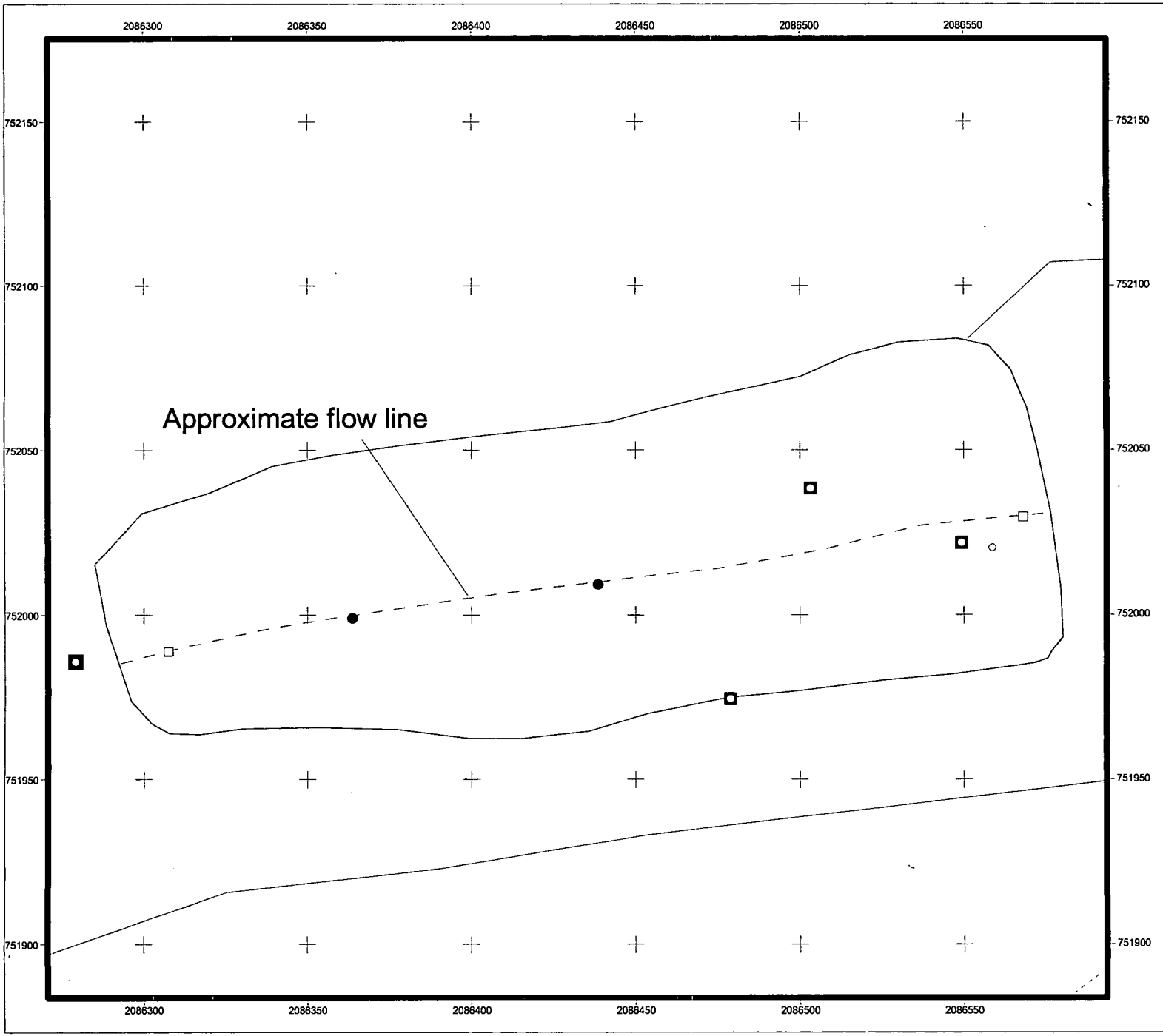
Required Distribution:

M. Aguilar, USEPA
H. Ainscough, CDPHE
S. Bell, DOE-RFPO
J. Berardini, K-H
B. Birk, DOE-RFPO
L. Brooks, K-H ESS
L. Butler, K-H RISS
G. Carnival, K-H RISS
N. Castaneda, DOE-RFPO
C. Deck, K-H Legal
N. Demos, SSOC
D. Mayo, K-H RISS
J. Mead, K-H ESS
S. Nesta, K-H RISS
L. Norland, K-H RISS
K. North, K-H ESS
E. Pottorff, CDPHE
A. Primrose, K-H RISS
M. Roy, DOE-RFPO
R. Schassburger, DOE-RFPO
S. Serreze, K-H RISS
D. Shelton, K-H ESS

Additional Distribution:

Robyn Blackburn/EPA/USFWS
Tracy Hammond/CDPHE

S. Gunderson, CDPHE	C. Spreng, CDPHE	_____
M. Keating, K-H RISS	S. Surovchak, DOE-RFPO	_____
G. Kleeman, USEPA	J. Walstrom, K-H RISS	_____
D. Kruchek, CDPHE	K. Wiemelt, K-H RISS	_____
J. Legare, DOE-RFPO	C. Zahm, K-H Legal	_____



Pond A-1
Existing and Proposed New Sampling Locations

KEY

- Proposed Surface Sediment Location
- Proposed Borehole Location
- 2004 Sampling Location
- 1997 Sampling Location
- 1994 Sampling Location
- 1992 Sampling Location
- Pond
- Stream
- Dirt Road

DRAFT

N
W E
S

9 0 9 18 27 Feet

Scale = 1:1400

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

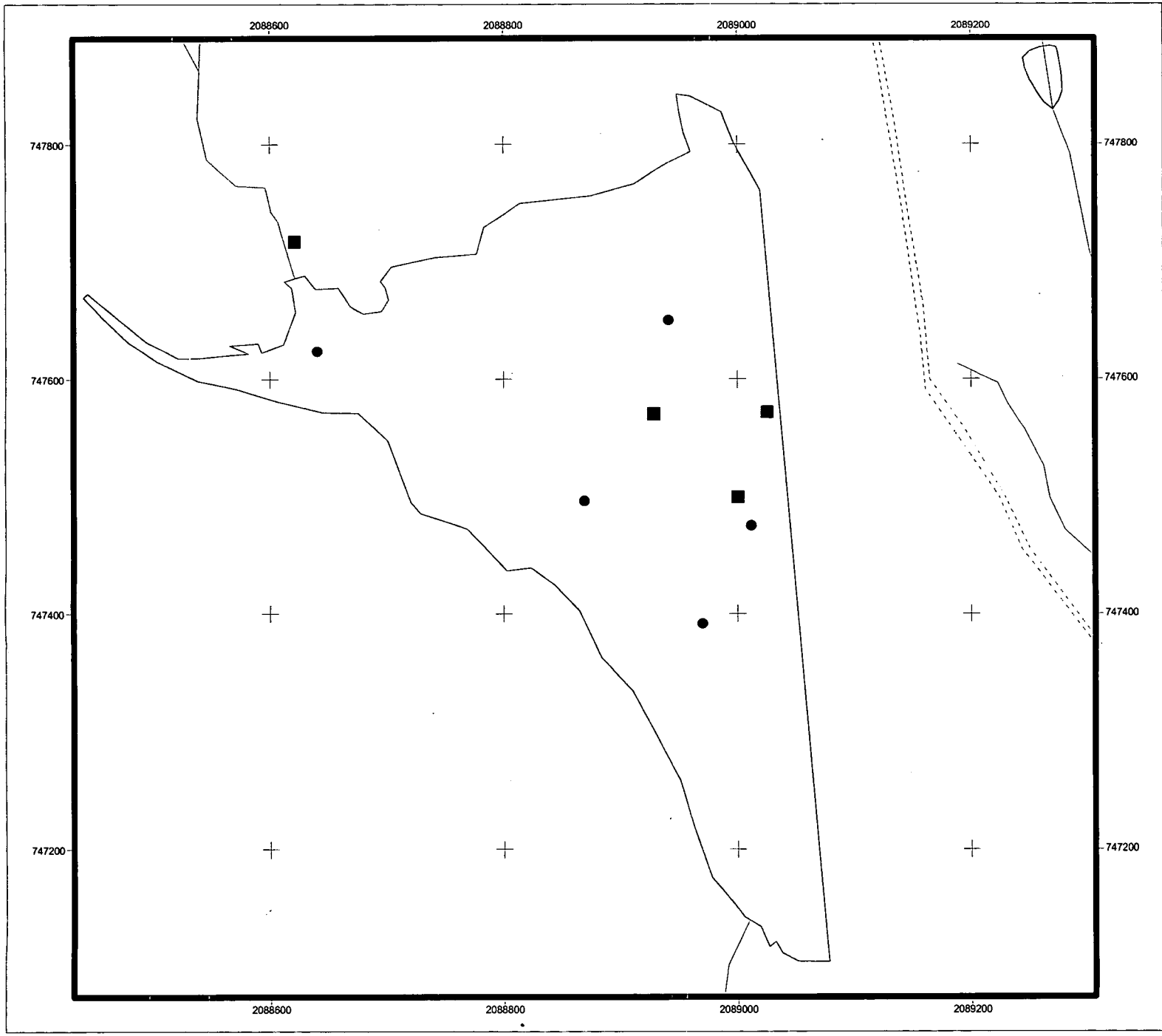
Prepared by:

RADMS

Prepared for:

KAISER•HILL COMPANY

projects/fy2005/ponds/addsamples.apr 7/505



Pond C-2
Existing and Proposed New Sampling Locations

KEY

- Proposed Surface Sediment Location
- Proposed Borehole Location
- 2004 Sampling Location
- 1997 Sampling Location
- 1994 Sampling Location
- 1992 Sampling Location
- Pond
- Stream
- Dirt Road

DRAFT

N
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S

20 0 20 40 60 Feet

Scale = 1:1400

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared by: RADMS

Prepared for: KAISER•HILL COMPANY

projects/fy2005/ponds/addsamples.apr 7/5/05

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE
ER REGULATORY CONTACT RECORD

Date/Time:	07/14/05 / 08:00
Site Contact(s)/Phone:	DOE: Norma Castaneda/966-4226 K-H Team: Annette Primrose 994-2761
Regulatory Contact/Phone:	EPA: Sam Garcia/312-6247 & Larry Kimmel/312-6659 & Todd Bechtel/Greystone/850-0930 CDPHE: Harlen Ainscough/692-3337 & David Kruchek/ 692-3328 USFWS: Mark Sattelberg/966-5413, Amy Thornburg/966-5777 & Andrew Todd/966-2142
Agency:	EPA/CDPHE/USFWS

Purpose of Contact: Authorization to begin sediment sampling at Pond B-4

Discussion

Sediment sampling at Pond B-4 will begin as discussed in the Biweekly Coordination Meeting on July 6, 2005 and as described in the Draft NE-1 Sampling and Analysis Plan.

Sampling will begin in advance of the draft Sampling and Analysis Plan Addendum approval to accommodate the pond's current condition of very low water levels that have exposed the outlet area. This pond may partially refill when water is pumped to the B-1, B-2 and B-3 ponds.

As discussed and agreed upon with Larry Kimmel, Sam Garcia, Todd Bechtel and Harlen Ainscough on July 12th, the locations in the SAP will be offset as necessary to allow more water to remain in the ponds. Location offsets will be discussed on a case by case basis as these occur. This will help the wildlife during this dry time of the year.

Contact Record Prepared By: Annette Primrose

Required Distribution:

M. Aguilar, USEPA
H. Ainscough, CDPHE
S. Bell, DOE-RFPO
J. Berardini, K-H
B. Birk, DOE-RFPO
L. Brooks, K-H ESS
L. Butler, K-H RISS
G. Carnival, K-H RISS
N. Castaneda, DOE-RFPO
C. Deck, K-H Legal
N. Demos, SSOC
D. Mayo, K-H RISS
J. Mead, K-H ESS
S. Nesta, K-H RISS
L. Norland, K-H RISS
K. North, K-H ESS
E. Pottorff, CDPHE
A. Primrose, K-H RISS
M. Roy, DOE-RFPO
R. Schassburger, DOE-RFPO
S. Serreze, K-H RISS
D. Shelton, K-H ESS

Additional Distribution:

Robyn Blackburn/EPA/USFWS
Tracy Hammond/CDPHE
_____
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_____
_____
_____
_____
_____
_____
_____

S. Gunderson, CDPHE	C. Spreng, CDPHE	_____
M. Keating, K-H RISS	S. Surovchak, DOE-RFPO	_____
G. Kleeman, USEPA	J. Walstrom, K-H RISS	_____
D. Kruchek, CDPHE	K. Wiemelt, K-H RISS	_____
J. Legare, DOE-RFPO	C. Zahm, K-H Legal	_____

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE
ER REGULATORY CONTACT RECORD

Date/Time:	07/14/05 / 08:00
Site Contact(s)/Phone:	DOE: Norma Castaneda/966-4226 K-H Team: Annette Primrose 994-2761
Regulatory Contact/Phone:	EPA: Sam Garcia/312-6247 & Larry Kimmel/312-6659 & Todd Bechtel/Greystone/850-0930 CDPHE: Harlen Ainscough/692-3337 & David Kruchek/ 692-3328 USFWS: Mark Sattelberg/966-5413, Amy Thornburg/966-5777 & Andrew Todd/966-2142
Agency:	EPA/CDPHE/USFWS

Purpose of Contact: Authorization to begin sediment sampling at Ponds A-2 and C-1

Discussion

Sediment sampling at Ponds A-2 and C-1 will begin as discussed in the Biweekly Coordination Meeting on July 6, 2005 and as described in the Draft NE-1 Sampling and Analysis Plan.

Sampling will begin in advance of the draft Sampling and Analysis Plan Addendum approval to accommodate the current conditions of very low water levels that have exposed the outlet area.

Ponds will be left with as much water as possible to help the wildlife during this dry time of the year while still allowing sampling activities to continue. If offsets to existing sample locations are required to preserve water in the ponds, these will be discussed in advance.

Contact Record Prepared By: Annette Primrose

Required Distribution:

M. Aguilar, USEPA	D. Mayo, K-H RISS	
H. Ainscough, CDPHE	J. Mead, K-H ESS	
S. Bell, DOE-RFPO	S. Nesta, K-H RISS	
J. Berardini, K-H	L. Norland, K-H RISS	
B. Birk, DOE-RFPO	K. North, K-H ESS	
L. Brooks, K-H ESS	E. Pottorff, CDPHE	
L. Butler, K-H RISS	A. Primrose, K-H RISS	
G. Carnival, K-H RISS	M. Roy, DOE-RFPO	
N. Castaneda, DOE-RFPO	R. Schassburger, DOE-RFPO	
C. Deck, K-H Legal	S. Serreze, K-H RISS	
N. Demos, SSOC	D. Shelton, K-H ESS	
S. Gunderson, CDPHE	C. Spreng, CDPHE	
M. Keating, K-H RISS	S. Surovchak, DOE-RFPO	
G. Kleeman, USEPA	J. Walstrom, K-H RISS	

Additional Distribution:

Robyn Blackburn/EPA/USFWS
Tracy Hammond/CDPHE

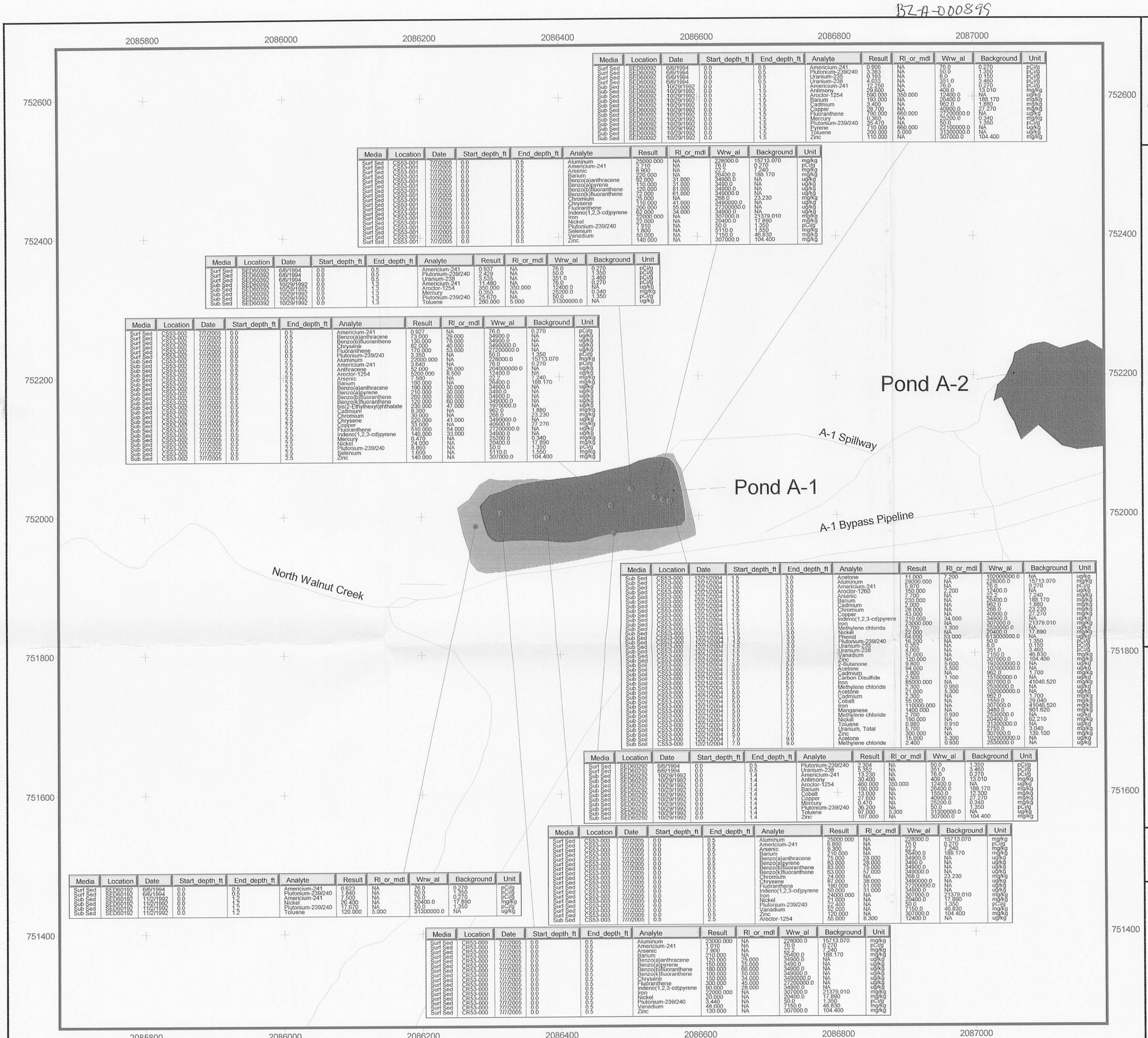
D. Kruchek, CDPHE
J. Legare, DOE-RFPO

K. Wiemelt, K-H RISS
C. Zahm, K-H Legal

#67

BZ-A-000895

Figure 2
Pond A-1 Sample Locations And Results Greater Than Background Means Plus Two Standard Deviations or Reporting Limits



Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Surf Sed	SED60092	6/6/1994	0.0	0.5	Americium-241	0.906	NA	76.0	0.270	pCi/g
Surf Sed	SED60092	6/6/1994	0.0	0.5	Plutonium-239/240	3.383	NA	50.0	1.350	pCi/g
Surf Sed	SED60092	6/6/1994	0.0	0.5	Uranium-235	0.193	NA	8.0	0.150	pCi/g
Surf Sed	SED60092	6/6/1994	0.0	0.5	Uranium-238	4.033	NA	351.0	3.460	pCi/g
Sub Sed	SED60092	10/29/1992	0.0	1.5	Americium-241	12.250	NA	76.0	0.270	pCi/g
Sub Sed	SED60092	10/29/1992	0.0	1.5	Antimony	29.600	NA	409.0	13.010	mg/kg
Sub Sed	SED60092	10/29/1992	0.0	1.5	Aroclor-1254	590.000	350.000	12400.0	NA	ug/kg
Sub Sed	SED60092	10/29/1992	0.0	1.5	Barium	193.000	NA	26400.0	188.170	mg/kg
Sub Sed	SED60092	10/29/1992	0.0	1.5	Cadmium	3.400	NA	952.0	1.880	mg/kg
Sub Sed	SED60092	10/29/1992	0.0	1.5	Copper	28.700	NA	40900.0	27.270	mg/kg
Sub Sed	SED60092	10/29/1992	0.0	1.5	Fluoranthene	790.000	660.000	27200000.0	NA	ug/kg
Sub Sed	SED60092	10/29/1992	0.0	1.5	Mercury	0.360	NA	25200.0	0.340	mg/kg
Sub Sed	SED60092	10/29/1992	0.0	1.5	Plutonium-239/240	35.470	NA	50.0	1.350	pCi/g
Sub Sed	SED60092	10/29/1992	0.0	1.5	Pyrene	710.000	660.000	22100000.0	NA	ug/kg
Sub Sed	SED60092	10/29/1992	0.0	1.5	Toluene	200.000	5.000	31300000.0	NA	ug/kg
Sub Sed	SED60092	10/29/1992	0.0	1.5	Zinc	110.000	NA	307000.0	104.400	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Surf Sed	CS53-001	7/7/2005	0.0	0.5	Aluminum	25000.000	NA	228000.0	15713.070	mg/kg
Surf Sed	CS53-001	7/7/2005	0.0	0.5	Americium-241	2.710	NA	76.0	0.270	pCi/g
Surf Sed	CS53-001	7/7/2005	0.0	0.5	Arsenic	8.900	NA	22.2	7.240	mg/kg
Surf Sed	CS53-001	7/7/2005	0.0	0.5	Barium	220.000	NA	26400.0	188.170	mg/kg
Surf Sed	CS53-001	7/7/2005	0.0	0.5	Benzo(a)anthracene	92.000	31.000	34900.0	NA	ug/kg
Surf Sed	CS53-001	7/7/2005	0.0	0.5	Benzo(a)pyrene	110.000	31.000	3490.0	NA	ug/kg
Surf Sed	CS53-001	7/7/2005	0.0	0.5	Benzo(b)fluoranthene	120.000	61.000	34900.0	NA	ug/kg
Surf Sed	CS53-001	7/7/2005	0.0	0.5	Benzo(k)fluoranthene	72.000	61.000	349000.0	NA	ug/kg
Surf Sed	CS53-001	7/7/2005	0.0	0.5	Chromium	25.000	NA	268.0	23.230	mg/kg
Surf Sed	CS53-001	7/7/2005	0.0	0.5	Chrysene	110.000	41.000	3490000.0	NA	ug/kg
Surf Sed	CS53-001	7/7/2005	0.0	0.5	Fluoranthene	200.000	55.000	27200000.0	NA	ug/kg
Surf Sed	CS53-001	7/7/2005	0.0	0.5	Indeno(1,2,3-cd)pyrene	62.000	34.000	34900.0	NA	ug/kg
Surf Sed	CS53-001	7/7/2005	0.0	0.5	Iron	22000.000	NA	307000.0	21379.010	mg/kg
Surf Sed	CS53-001	7/7/2005	0.0	0.5	Nickel	22.000	NA	20400.0	17.890	mg/kg
Surf Sed	CS53-001	7/7/2005	0.0	0.5	Plutonium-239/240	7.910	NA	50.0	1.350	pCi/g
Surf Sed	CS53-001	7/7/2005	0.0	0.5	Selenium	1.800	NA	5110.0	1.550	mg/kg
Surf Sed	CS53-001	7/7/2005	0.0	0.5	Vanadium	50.000	NA	7150.0	46.830	mg/kg
Surf Sed	CS53-001	7/7/2005	0.0	0.5	Zinc	140.000	NA	307000.0	104.400	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Surf Sed	SED60392	6/6/1994	0.0	0.5	Americium-241	0.937	NA	76.0	0.270	pCi/g
Surf Sed	SED60392	6/6/1994	0.0	0.5	Plutonium-239/240	2.429	NA	50.0	1.350	pCi/g
Surf Sed	SED60392	6/6/1994	0.0	0.5	Uranium-238	3.535	NA	351.0	3.460	pCi/g
Sub Sed	SED60392	10/29/1992	0.0	1.3	Americium-241	11.480	NA	76.0	0.270	pCi/g
Sub Sed	SED60392	10/29/1992	0.0	1.3	Aroclor-1254	350.000	350.000	12400.0	NA	ug/kg
Sub Sed	SED60392	10/29/1992	0.0	1.3	Mercury	0.350	NA	25200.0	0.340	mg/kg
Sub Sed	SED60392	10/29/1992	0.0	1.3	Plutonium-239/240	25.670	NA	50.0	1.350	pCi/g
Sub Sed	SED60392	10/29/1992	0.0	1.3	Toluene	280.000	5.000	31300000.0	NA	ug/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Surf Sed	CS53-002	7/7/2005	0.0	0.5	Americium-241	0.927	NA	76.0	0.270	pCi/g
Surf Sed	CS53-002	7/7/2005	0.0	0.5	Benzo(a)anthracene	73.000	29.000	34900.0	NA	ug/kg
Surf Sed	CS53-002	7/7/2005	0.0	0.5	Benzo(b)fluoranthene	130.000	78.000	34900.0	NA	ug/kg
Surf Sed	CS53-002	7/7/2005	0.0	0.5	Chrysene	82.000	40.000	3490000.0	NA	ug/kg
Surf Sed	CS53-002	7/7/2005	0.0	0.5	Fluoranthene	170.000	53.000	27200000.0	NA	ug/kg
Surf Sed	CS53-002	7/7/2005	0.0	0.5	Plutonium-239/240	3.350	NA	50.0	1.350	pCi/g
Surf Sed	CS53-002	7/7/2005	0.0	0.5	Aluminum	22000.000	NA	228000.0	15713.070	mg/kg
Sub Sed	CS53-002	7/7/2005	0.5	2.5	Americium-241	3.640	NA	76.0	0.270	pCi/g
Sub Sed	CS53-002	7/7/2005	0.5	2.5	Anthracene	52.000	26.000	204000000.0	NA	ug/kg
Sub Sed	CS53-002	7/7/2005	0.5	2.5	Aroclor-1254	5200.000	8.500	12400.0	NA	ug/kg
Sub Sed	CS53-002	7/7/2005	0.5	2.5	Arsenic	7.500	NA	22.2	7.240	mg/kg
Sub Sed	CS53-002	7/7/2005	0.5	2.5	Barium	190.000	NA	26400.0	188.170	mg/kg
Sub Sed	CS53-002	7/7/2005	0.5	2.5	Benzo(a)anthracene	190.000	30.000	34900.0	NA	ug/kg
Sub Sed	CS53-002	7/7/2005	0.5	2.5	Benzo(a)pyrene	210.000	30.000	3490.0	NA	ug/kg
Sub Sed	CS53-002	7/7/2005	0.5	2.5	Benzo(b)fluoranthene	260.000	80.000	34900.0	NA	ug/kg
Sub Sed	CS53-002	7/7/2005	0.5	2.5	Benzo(k)fluoranthene	120.000	60.000	349000.0	NA	ug/kg
Sub Sed	CS53-002	7/7/2005	0.5	2.5	bis(2-Ethylhexyl)phthalate	230.000	47.000	1970000.0	NA	ug/kg
Sub Sed	CS53-002	7/7/2005	0.5	2.5	Cadmium	8.300	NA	952.0	1.880	mg/kg
Sub Sed	CS53-002	7/7/2005	0.5	2.5	Chromium	30.000	NA	268.0	23.230	mg/kg
Sub Sed	CS53-002	7/7/2005	0.5	2.5	Chrysene	220.000	41.000	3490000.0	NA	ug/kg
Sub Sed	CS53-002	7/7/2005	0.5	2.5	Copper	33.000	NA	40900.0	27.270	mg/kg
Sub Sed	CS53-002	7/7/2005	0.5	2.5	Fluoranthene	510.000	54.000	27200000.0	NA	ug/kg
Sub Sed	CS53-002	7/7/2005	0.5	2.5	Indeno(1,2,3-cd)pyrene	140.000	33.000	34900.0	NA	ug/kg
Sub Sed	CS53-002	7/7/2005	0.5	2.5	Mercury	0.470	NA	25200.0	0.340	mg/kg
Sub Sed	CS53-002	7/7/2005	0.5	2.5	Nickel	24.000	NA	20400.0	17.890	mg/kg
Sub Sed	CS53-002	7/7/2005	0.5	2.5	Plutonium-239/240	8.860	NA	50.0	1.350	pCi/g
Sub Sed	CS53-002	7/7/2005	0.5	2.5	Selenium	1.600	NA	5110.0	1.550	mg/kg
Sub Sed	CS53-002	7/7/2005	0.5	2.5	Zinc	140.000	NA	307000.0	104.400	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Sub Sed	CS53-000	12/21/2004	1.5	3.0	Acetone	11.000	7.200	102000000.0	NA	ug/kg
Sub Sed	CS53-000	12/21/2004	1.5	3.0	Aluminum	29000.000	NA	228000.0	15713.070	mg/kg
Sub Sed	CS53-000	12/21/2004	1.5	3.0	Americium-241	5.970	NA	76.0	0.270	pCi/g
Sub Sed	CS53-000	12/21/2004	1.5	3.0	Aroclor-1260	150.000	2.200	12400.0	NA	ug/kg
Sub Sed	CS53-000	12/21/2004	1.5	3.0	Arsenic	7.700	NA	22.2	7.240	mg/kg
Sub Sed	CS53-000	12/21/2004	1.5	3.0	Barium	230.000	NA	26400.0	188.170	mg/kg
Sub Sed	CS53-000	12/21/2004	1.5	3.0	Cadmium	2.000	NA	952.0	1.880	mg/kg
Sub Sed	CS53-000	12/21/2004	1.5	3.0	Chromium	28.000	NA	268.0	23.230	mg/kg
Sub Sed	CS53-000	12/21/2004	1.5	3.0	Copper	43.000	NA	40900.0	27.270	mg/kg
Sub Sed	CS53-000	12/21/2004	1.5	3.0	Indeno(1,2,3-cd)pyrene	210.000	34.000	34900.0	NA	ug/kg
Sub Sed	CS53-000	12/21/2004	1.5	3.0	Iron	23000.000	NA	307000.0	21379.010	mg/kg
Sub Sed	CS53-000	12/21/2004	1.5	3.0	Methylene chloride	3.700	1.300	2530000.0	NA	ug/kg
Sub Sed	CS53-000	12/21/2004	1.5	3.0	Nickel	22.000	NA	20400.0	17.890	mg/kg
Sub Sed	CS53-000	12/21/2004	1.5	3.0	Phenol	54.000	53.000	613000000.0	NA	ug/kg
Sub Sed	CS53-000	12/21/2004	1.5	3.0	Plutonium-239/240	16.200	NA	50.0	1.350	pCi/g
Sub Sed	CS53-000	12/21/2004	1.5	3.0	Uranium-235	0.352	NA	8.0	0.150	pCi/g
Sub Sed	CS53-000	12/21/2004	1.5	3.0	Uranium-238	4.060	NA	351.0	3.460	pCi/g
Sub Sed	CS53-000	12/21/2004	1.5	3.0	Vanadium	57.000	NA	7150.0	46.830	mg/kg
Sub Sed	CS53-000	12/21/2004	1.5	3.0	Zinc	120.000	NA	307000.0	104.400	mg/kg
Sub Soil	CS53-000	12/21/2004	3.0	5.0	2-Butanone	9.800	5.600	192000000.0	NA	ug/kg
Sub Soil	CS53-000	12/21/2004	3.0	5.0	Acetone	94.000	5.500	102000000.0	NA	ug/kg
Sub Soil	CS53-000	12/21/2004	3.0	5.0	Cadmium	1.800	NA	962.0	1.700	mg/kg
Sub Soil	CS53-000	12/21/2004	3.0	5.0	Carbon Disulfide	2.500	1.100	15100000.0	NA	ug/kg
Sub Soil	CS53-000	12/21/2004	3.0	5.0	Iron	85000.000	NA	307000.0	41046.520	mg/kg
Sub Soil	CS53-000	12/21/2004	3.0	5.0	Methylene chloride	2.300	0.950	2530000.0	NA	ug/kg
Sub Soil	CS53-000	12/21/2004	5.0	7.0	Acetone	21.000	5.300	102000000.0	NA	ug/kg
Sub Soil	CS53-000	12/21/2004	5.0	7.0	Cadmium	2.300	NA	962.0	1.700	mg/kg
Sub Soil	CS53-000	12/21/2004	5.0	7.0	Cobalt	56.000	NA	1550.0	29.040	mg/kg
Sub Soil	CS53-000	12/21/2004	5.0	7.0	Iron	110000.000	NA	307000.0	41046.520	mg/kg
Sub Soil	CS53-000	12/21/2004	5.0	7.0	Manganese	1400.000	NA	3480.0	901.620	mg/kg
Sub Soil	CS53-000	12/21/2004	5.0	7.0	Methylene chloride	2.700	0.930	2530000.0	NA	ug/kg
Sub Soil	CS53-000	12/21/2004	5.0	7.0	Nickel	190.000	NA	20400.0	62.210	mg/kg
Sub Soil	CS53-000	12/21/2004	5.0	7.0	Toluene	0.980	0.910	31300000.0	NA	ug/kg
Sub Soil	CS53-000	12/21/2004	5.0	7.0	Uranium, Total	5.700	NA	2750.0	3.040	mg/kg
Sub Soil	CS53-000	12/21/2004	5.0	7.0	Zinc	300.000	NA	307000.0	138.100	mg/kg
Sub Soil	CS53-000	12/21/2004	7.0	9.0	Acetone	15.000	5.300	102000000.0	NA	ug/kg
Sub Soil	CS53-000	12/21/2004	7.0	9.0	Methylene chloride	2.400	0.930	2530000.0	NA	ug/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Surf Sed	SED60292	6/6/1994	0.0	0.5	Plutonium-239/240	2.304	NA	50.0	1.350	pCi/g
Surf Sed	SED60292	6/6/1994	0.0	0.5	Uranium-238	5.352	NA	351.0	3.460	pCi/g
Sub Sed	SED60292	10/29/1992	0.0	1.4	Americium-241	13.230	NA	76.0	0.270	pCi/g
Sub Sed	SED60292	10/29/1992	0.0	1.4	Antimony	30.400	NA	409.0	13.010	mg/kg
Sub Sed	SED60292	10/29/1992	0.0	1.4	Aroclor-1254	460.000	350.000	12400.0	NA	ug/kg
Sub Sed	SED60292	10/29/1992	0.0	1.4	Barium	190.000	NA	26400.0	188.170	mg/kg
Sub Sed	SED60292	10/29/1992	0.0	1.4	Cobalt	13.000	NA	1550.0	12.300	mg/kg
Sub Sed	SED60292	10/29/1992	0.0	1.4	Copper	27.500	NA	40900.0	27.270	mg/kg
Sub Sed	SED60292	10/29/1992	0.0	1.4	Mercury	0.470	NA	25200.0	0.340	mg/kg
Sub Sed	SED60292	10/29/1992	0.0	1.4	Plutonium-239/240	36.200	NA	50.0	1.350	pCi/g
Sub Sed	SED60292	10/29/1992	0.0	1.4	Toluene	97.000	5.300	31300000.0	NA	ug/kg
Sub Sed	SED60292	10/29/1992	0.0	1.4	Zinc	107.000	NA	307000.0	104.400	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Surf Sed	CS53-003	7/7/2005	0.0	0.5	Aluminum	25000.000	NA	228000.0	15713.070	mg/kg
Surf Sed	CS53-003	7/7/2005	0.0	0.5	Americium-241	6.890	NA	76.0	0.270	pCi/g
Surf Sed	CS53-003	7/7/2005	0.0	0.5	Arsenic	9.300	NA	22.2	7.240	mg/kg
Surf Sed	CS53-003	7/7/2005	0.0	0.5	Barium	210.000	NA	26400.0	188.170	mg/kg
Surf Sed	CS53-003	7/7/2005	0.0	0.5	Benzo(a)anthracene	75.000	28.000	34900.0	NA	ug/kg
Surf Sed	CS53-003	7/7/2005	0.0	0.5	Benzo(a)pyrene	83.000	28.000	3490.0	NA	ug/kg
Surf Sed	CS53-003	7/7/2005	0.0	0.5	Benzo(b)fluoranthene	83.000	75.000	34900.0	NA	ug/kg
Surf Sed	CS53-003	7/7/2005	0.0	0.5	Benzo(k)fluoranthene	53.000	57.000	349000.0	NA	ug/kg
Surf Sed	CS53-003	7/7/2005	0.0	0.5	Chromium	24.000	NA	268.0	23.230	mg/kg
Surf Sed	CS53-003	7/7/2005	0.0	0.5	Chrysene	87.000	38.000	3490000.0	NA	ug/kg
Surf Sed	CS53-003	7/7/2005	0.0	0.5	Fluoranthene	190.000	51.000	27200000.0	NA	ug/kg
Surf Sed	CS53-003	7/7/2005	0.0	0.5	Indeno(1,2,3-cd)pyrene	50.000	31.000	34900.0	NA	ug/kg
Surf Sed	CS53-003	7/7/2005	0.0	0.5	Iron	24000.000	NA	307000.0	21379.010	mg/kg
Surf Sed	CS53-003	7/7/2005	0.0	0.5	Nickel	21.000	NA	20400.0	17.890	mg/kg
Surf Sed	CS53-003	7/7/2005	0.0	0.5	Plutonium-239/240	22.400	NA	50.0	1.350	pCi/g
Surf Sed	CS53-003	7/7/2005	0.0	0.5	Vanadium	52.000	NA	7150.0	46.830	mg/kg
Surf Sed	CS53-003	7/7/2005	0.0	0.5	Zinc	120.000	NA	307000.0	104.400	mg/kg
Sub Sed	CS53-003	7/7/2005	0.5	2.5	Aroclor-1254	55.000	8.300	12400.0	NA	ug/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Surf Sed	SED60192	6/6/1994	0.0	0.5	Americium-241	0.623	NA	76.0	0.270	pCi/g
Surf Sed	SED60192	6/6/1994	0.0	0.5	Plutonium-239/240	1.840	NA	50.0	1.350	pCi/g
Sub Sed	SED60192	11/2/1992	0.0	1.2	Americium-241	7.500	NA	76.0	0.270	pCi/g
Sub Sed	SED60192	11/2/1992	0.0	1.2	Nickel	26.400	NA	20400.0	17.890	mg/kg
Sub Sed	SED60192	11/2/1992	0.0	1.2	Plutonium-239/240	17.070	NA	50.0	1.350	pCi/g
Sub Sed	SED60192	11/2/1992	0.0	1.2	Toluene	120.000	5.000	31300000.0	NA	ug/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Surf Sed	CR53-000	7/7/2005	0.0	0.5	Aluminum	23000.000	NA	228000.0	15713.070	mg/kg
Surf Sed	CR53-000	7/7/2005	0.0	0.5	Americium-241	1.010	NA	76.0	0.270	pCi/g
Surf Sed	CR53-000	7/7/2005	0.0	0.5	Arsenic	7.900	NA	22.2	7.240	mg/kg
Surf Sed	CR53-000	7/7/2005	0.0	0.5	Barium	210.000	NA	26400.0	188.170	mg/kg
Surf Sed	CR53-000	7/7/2005	0.0	0.5	Benzo(a)anthracene	120.000	25.000	34900.0	NA	ug/kg
Surf Sed	CR53-000	7/7/2005	0.0	0.5	Benzo(a)pyrene	150.000	25.000	3490.0	NA	ug/kg
Surf Sed	CR53-000	7/7/2005	0.0	0.5	Benzo(b)fluoranthene	180.000	66.000	34900.0	NA	ug/kg
Surf Sed	CR53-000	7/7/2005	0.0	0.5	Benzo(k)fluoranthene	100.000	50.000	349000.0	NA	ug/kg
Surf Sed	CR53-000	7/7/2005	0.0	0.5	Chrysene	150.000	34.000	3490000.0	NA	ug/kg
Surf Sed	CR53-000	7/7/2005	0.0	0.5	Fluoranthene	300.000	45.000	27200000.0	NA	ug/kg
Surf Sed	CR53-000	7/7/2005	0.0	0.5	Indeno(1,2,3-cd)pyrene	90.000	28.000	34900.0	NA	ug/kg
Surf Sed	CR53-000	7/7/2005	0.0	0.5	Iron	22000.000	NA	307000.0	21379.010	mg/kg
Surf Sed	CR53-000	7/7/2005	0.0	0.5	Nickel	20.000	NA	20400.0	17.890	mg/kg
Surf Sed	CR53-000	7/7/2005	0.0	0.5	Plutonium-239/240	3.440	NA	50.0	1.350	pCi/g
Surf Sed	CR53-000	7/7/2005	0.0	0.5	Vanadium	48.000	NA	7150.0	46.830	mg/kg
Surf Sed	CR53-000	7/7/2005	0.0	0.5	Zinc	130.000	NA	307000.0	104.400	mg/kg

KEY

- Sampling location
- Pond
- IHSS
- Stream

N
W E
S

50 0 50 100 150 200 Feet

Scale 1:1,200

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared for: KAISER-HILL COMPANY

Prepared by: RADMS

File: W: Projects/Fy2005/Ponds/DSR/Agency_pondresults.apr Date: October 2005

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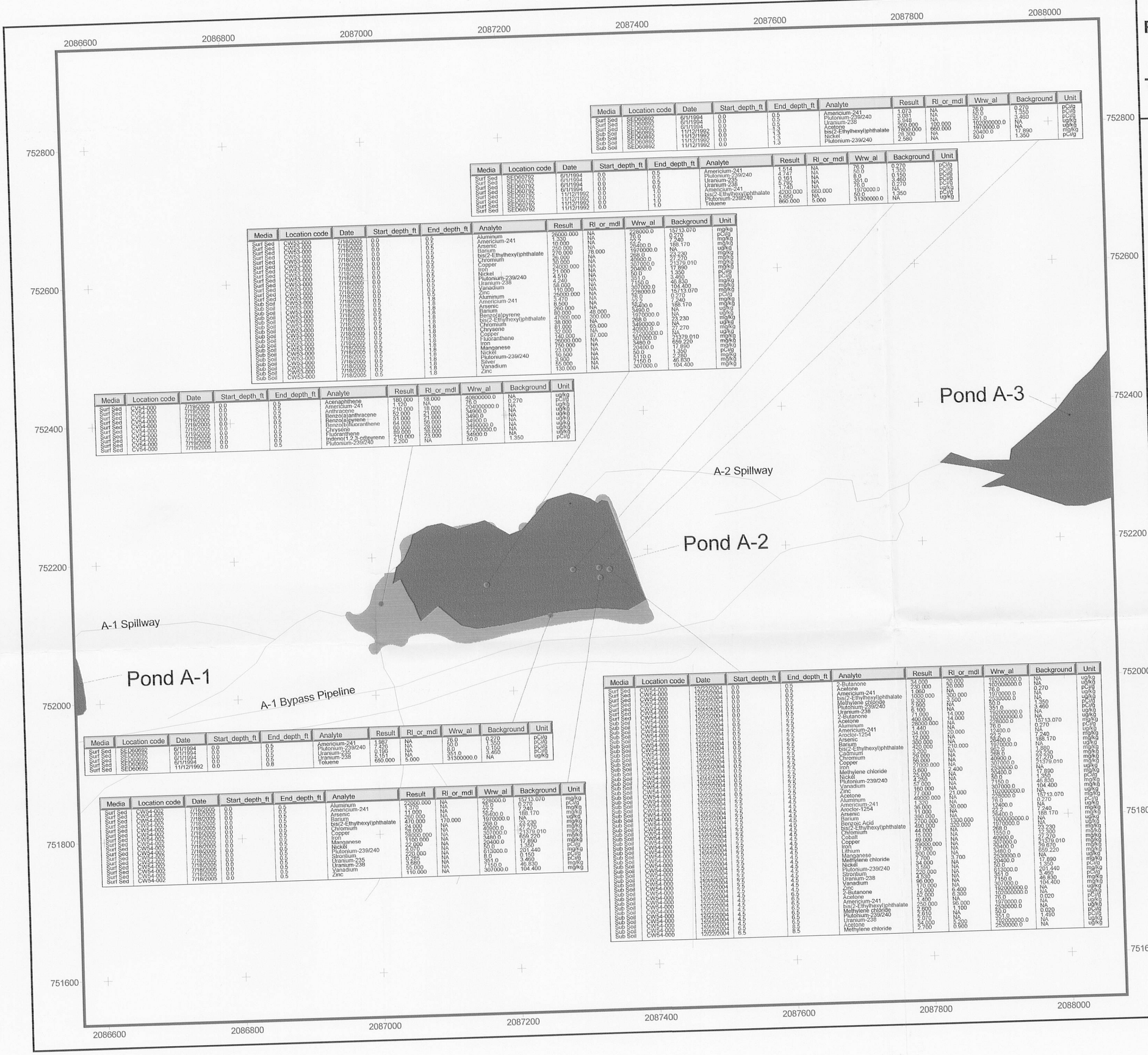
BZ-A-000899

Figure 3
Pond A-2 Sample Locations And Results Greater Than Background Means Plus Two Standard Deviations or Reporting Limits



Media	Location code	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Surf Sed	SED60892	6/1/1994	0.0	0.5	Americium-241	1.073	NA	76.0	0.270	pCi/g
Surf Sed	SED60892	6/1/1994	0.0	0.5	Plutonium-239/240	3.081	NA	50.0	1.350	pCi/g
Surf Sed	SED60892	6/1/1994	0.0	0.5	Uranium-238	5.548	NA	351.0	3.460	pCi/g
Surf Sed	SED60892	11/12/1992	0.0	1.3	Acetone	260.000	100.000	152000000.0	NA	ug/kg
Sub Soil	SED60892	11/12/1992	0.0	1.3	bis(2-Ethylhexyl)phthalate	7800.000	660.000	1970000.0	17.890	ug/kg
Sub Soil	SED60892	11/12/1992	0.0	1.3	Nickel	28.300	NA	20400.0	1.350	mg/kg
Sub Soil	SED60892	11/12/1992	0.0	1.3	Plutonium-239/240	2.580	NA	50.0		pCi/g
Sub Soil	SED60892	11/12/1992	0.0	1.3						

Media	Location code	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Surf Sed	SED60792	6/1/1994	0.0	0.5	Americium-241	1.514	NA	76.0	0.270	pCi/g
Surf Sed	SED60792	6/1/1994	0.0	0.5	Plutonium-239/240	4.747	NA	50.0	1.350	pCi/g
Surf Sed	SED60792	6/1/1994	0.0	0.5	Uranium-238	0.161	NA	8.0	0.150	pCi/g
Surf Sed	SED60792	6/1/1994	0.0	0.5	Americium-241	5.792	NA	351.0	3.460	pCi/g
Surf Sed	SED60792	11/12/1992	0.0	1.0	bis(2-Ethylhexyl)phthalate	1.745	NA	76.0	0.270	pCi/g
Surf Sed	SED60792	11/12/1992	0.0	1.0	Nickel	4200.000	660.000	1970000.0	17.890	ug/kg
Surf Sed	SED60792	11/12/1992	0.0	1.0	Plutonium-239/240	5.650	NA	50.0	1.350	mg/kg
Surf Sed	SED60792	11/12/1992	0.0	1.0	Toluene	860.000	5.000	31300000.0	NA	pCi/g
Surf Sed	SED60792	11/12/1992	0.0	1.0						ug/kg

Media	Location code	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Surf Sed	CW53-000	7/18/2005	0.0	0.5	Aluminum	26000.000	NA	226000.0	15713.070	mg/kg
Surf Sed	CW53-000	7/18/2005	0.0	0.5	Americium-241	1.330	NA	76.0	0.270	pCi/g
Surf Sed	CW53-000	7/18/2005	0.0	0.5	Arsenic	16.000	NA	22.2	7.240	mg/kg
Surf Sed	CW53-000	7/18/2005	0.0	0.5	Barium	250.000	NA	26400.0	188.170	mg/kg
Surf Sed	CW53-000	7/18/2005	0.0	0.5	Copper	270.000	78.000	1970000.0	NA	ug/kg
Surf Sed	CW53-000	7/18/2005	0.0	0.5	bis(2-Ethylhexyl)phthalate	29.000	NA	268.0	23.230	mg/kg
Surf Sed	CW53-000	7/18/2005	0.0	0.5	Chromium	30.000	NA	40900.0	27.270	mg/kg
Surf Sed	CW53-000	7/18/2005	0.0	0.5	Iron	24000.000	NA	3970000.0	21379.010	mg/kg
Surf Sed	CW53-000	7/18/2005	0.0	0.5	Nickel	21.000	NA	20400.0	17.890	mg/kg
Surf Sed	CW53-000	7/18/2005	0.0	0.5	Plutonium-239/240	4.510	NA	50.0	1.350	pCi/g
Surf Sed	CW53-000	7/18/2005	0.0	0.5	Uranium-238	4.240	NA	351.0	3.460	mg/kg
Surf Sed	CW53-000	7/18/2005	0.0	0.5	Vanadium	58.000	NA	7150.0	46.830	mg/kg
Surf Sed	CW53-000	7/18/2005	0.0	0.5	Zinc	110.000	NA	307000.0	104.400	mg/kg
Surf Sed	CW53-000	7/18/2005	0.0	0.5	Aluminum	25000.000	NA	228000.0	15713.070	mg/kg
Surf Sed	CW53-000	7/18/2005	0.0	0.5	Americium-241	3.470	NA	76.0	0.270	pCi/g
Surf Sed	CW53-000	7/18/2005	0.5	1.8	Arsenic	8.500	NA	22.2	7.240	mg/kg
Sub Soil	CW53-000	7/18/2005	0.5	1.8	Barium	260.000	NA	26400.0	188.170	mg/kg
Sub Soil	CW53-000	7/18/2005	0.5	1.8	Benzo(a)pyrene	60.000	48.000	3490.0	NA	ug/kg
Sub Soil	CW53-000	7/18/2005	0.5	1.8	bis(2-Ethylhexyl)phthalate	47000.000	330.000	1970000.0	NA	ug/kg
Sub Soil	CW53-000	7/18/2005	0.5	1.8	Chromium	38.000	NA	268.0	23.230	mg/kg
Sub Soil	CW53-000	7/18/2005	0.5	1.8	Chrysene	81.000	65.000	3490000.0	NA	ug/kg
Sub Soil	CW53-000	7/18/2005	0.5	1.8	Copper	32.000	NA	40900.0	27.270	mg/kg
Sub Soil	CW53-000	7/18/2005	0.5	1.8	Fluoranthene	140.000	97.000	21200000.0	NA	ug/kg
Sub Soil	CW53-000	7/18/2005	0.5	1.8	Iron	29000.000	NA	3970000.0	21379.010	mg/kg
Sub Soil	CW53-000	7/18/2005	0.5	1.8	Manganese	750.000	NA	3480.0	659.220	mg/kg
Sub Soil	CW53-000	7/18/2005	0.5	1.8	Nickel	23.000	NA	20400.0	17.890	pCi/g
Sub Soil	CW53-000	7/18/2005	0.5	1.8	Plutonium-239/240	10.500	NA	50.0	1.350	mg/kg
Sub Soil	CW53-000	7/18/2005	0.5	1.8	Silver	3.900	NA	5110.0	2.280	mg/kg
Sub Soil	CW53-000	7/18/2005	0.5	1.8	Vanadium	55.000	NA	7150.0	46.830	mg/kg
Sub Soil	CW53-000	7/18/2005	0.5	1.8	Zinc	130.000	NA	307000.0	104.400	mg/kg
Sub Soil	CW53-000	7/18/2005	0.5	1.8						

Media	Location code	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Surf Sed	CV54-000	7/19/2005	0.0	0.5	Acenaphthene	180.000	18.000	40800000.0	NA	ug/kg
Surf Sed	CV54-000	7/19/2005	0.0	0.5	Americium-241	1.100	NA	76.0	0.270	pCi/g
Surf Sed	CV54-000	7/19/2005	0.0	0.5	Anthracene	210.000	18.000	204000000.0	NA	ug/kg
Surf Sed	CV54-000	7/19/2005	0.0	0.5	Benzo(a)anthracene	52.000	21.000	34900.0	NA	ug/kg
Surf Sed	CV54-000	7/19/2005	0.0	0.5	Benzo(a)pyrene	51.000	21.000	34900.0	NA	ug/kg
Surf Sed	CV54-000	7/19/2005	0.0	0.5	Benzo(b)fluoranthene	64.000	56.000	34900000.0	NA	ug/kg
Surf Sed	CV54-000	7/19/2005	0.0	0.5	Chrysene	60.000	38.000	2720000.0	NA	ug/kg
Surf Sed	CV54-000	7/19/2005	0.0	0.5	Fluoranthene	99.000	38.000	34900.0	NA	ug/kg
Surf Sed	CV54-000	7/19/2005	0.0	0.5	Indeno(1,2,3-cd)pyrene	210.000	23.000	50.0	1.350	pCi/g
Surf Sed	CV54-000	7/19/2005	0.0	0.5	Plutonium-239/240	2.200	NA			

Media	Location code	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Surf Sed	CW54-002	7/18/2005	0.0	0.5	Aluminum	22000.000	NA	228000.0	15713.070	mg/kg
Surf Sed	CW54-002	7/18/2005	0.0	0.5	Americium-241	1.370	NA	76.0	0.270	pCi/g
Surf Sed	CW54-002	7/18/2005	0.0	0.5	Arsenic	11.000	NA	22.2	7.240	mg/kg
Surf Sed	CW54-002	7/18/2005	0.0	0.5	Barium	260.000	NA	26400.0	188.170	mg/kg
Surf Sed	CW54-002	7/18/2005	0.0	0.5	bis(2-Ethylhexyl)phthalate	470.000	170.000	1970000.0	NA	ug/kg
Surf Sed	CW54-002	7/18/2005	0.0	0.5	Chromium	24.000	NA	268.0	23.230	mg/kg
Surf Sed	CW54-002	7/18/2005	0.0	0.5	Copper	58.000	NA	40900.0	27.270	mg/kg
Surf Sed	CW54-002	7/18/2005	0.0	0.5	Iron	28000.000	NA	3970000.0	21379.010	mg/kg
Surf Sed	CW54-002	7/18/2005	0.0	0.5	Manganese	1100.000	NA	3480.0	659.220	mg/kg
Surf Sed	CW54-002	7/18/2005	0.0	0.5	Nickel	22.000	NA	20400.0	17.890	pCi/g
Surf Sed	CW54-002	7/18/2005	0.0	0.5	Plutonium-239/240	4.070	NA	50.0	1.350	mg/kg
Surf Sed	CW54-002	7/18/2005	0.0	0.5	Strontium	220.000	NA	613000.0	201.440	pCi/g
Surf Sed	CW54-002	7/18/2005	0.0	0.5	Uranium-235	0.285	NA	8.0	0.150	pCi/g
Surf Sed	CW54-002	7/18/2005	0.0	0.5	Uranium-238	3.680	NA	351.0	3.460	mg/kg
Surf Sed	CW54-002	7/18/2005	0.0	0.5	Vanadium	55.000	NA	7150.0	46.830	mg/kg
Surf Sed	CW54-002	7/18/2005	0.0	0.5	Zinc	110.000	NA	307000.0	104.400	mg/kg
Surf Sed	CW54-002	7/18/2005	0.0	0.5						

Media	Location code	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Surf Sed	CW54-000	12/22/2004	0.0	0.5	2-Butanone	34.000	20.000	152000000.0	NA	ug/kg
Surf Sed	CW54-000	12/22/2004	0.0	0.5	Acetone	230.000	20.000	102000000.0	NA	ug/kg
Surf Sed	CW54-000	12/22/2004	0.0	0.5	Americium-241	1.060	NA	76.0	0.270	pCi/g
Surf Sed	CW54-000	12/22/2004	0.0	0.5	bis(2-Ethylhexyl)phthalate	1000.000	300.000	1970000.0	NA	ug/kg
Surf Sed	CW54-000	12/22/2004	0.0	0.5	Methylene chloride	9.300	3.500	2530000.0	NA	ug/kg
Surf Sed	CW54-000	12/22/2004	0.0	0.5	Plutonium-239/240	2.690	NA	50.0	1.350	pCi/g
Surf Sed	CW54-000	12/22/2004	0.0	0.5	Uranium-238	6.100	NA	351.0	3.460	mg/kg
Sub Soil	CW54-000	12/22/2004	0.5	2.5	2-Butanone	71.000	14.000	192000000.0	NA	ug/kg
Sub Soil	CW54-000	12/22/2004	0.5	2.5	Acetone	400.000	14.000	102000000.0	NA	ug/kg
Sub Soil	CW54-000	12/22/2004	0.5	2.5	Aluminum	28000.000	NA	228000.0	15713.070	mg/kg
Sub Soil	CW54-000	12/22/2004	0.5	2.5	Americium-241	1.440	NA	76.0	0.270	pCi/g
Sub Soil	CW54-000	12/22/2004	0.5	2.5	Aroclor-1254	34.000	20.000	12400.0	NA	ug/kg
Sub Soil	CW54-000	12/22/2004	0.5	2.5	Arsenic	12.000	NA	22.2	7.240	mg/kg
Sub Soil	CW54-000	12/22/2004	0.5	2.5	Barium	300.000	NA	26400.0	188.170	mg/kg
Sub Soil	CW54-000	12/22/2004	0.5	2.5	bis(2-Ethylhexyl)phthalate	420.000	210.000	1970000.0	NA	ug/kg
Sub Soil	CW54-000	12/22/2004	0.5	2.5	Cadmium	3.200	NA	962.0	1.980	mg/kg
Sub Soil	CW54-000	12/22/2004	0.5	2.5	Chromium	23.000	NA	268.0	23.230	mg/kg
Sub Soil	CW54-000	12/22/2004	0.5	2.5	Copper	56.000	NA	40900.0	27.270	mg/kg
Sub Soil	CW54-000	12/22/2004	0.5	2.5	Iron	27000.000	NA	3970000.0	21379.010	mg/kg
Sub Soil	CW54-000	12/22/2004	0.5	2.5	Methylene chloride	5.600	2.400	2530000.0	NA	ug/kg
Sub Soil	CW54-000	12/22/2004	0.5	2.5	Nickel	25.000	NA	20400.0	17.890	mg/kg
Sub Soil	CW54-000	12/22/2004	0.5	2.5	Plutonium-239/240	4.250	NA	50.0	1.350	pCi/g
Sub Soil	CW54-000	12/22/2004	0.5	2.5	Vanadium	57.000	NA	7150.0	46.830	mg/kg
Sub Soil	CW54-000	12/22/2004	0.5	2.5	Zinc	160.000	NA	307000.0	104.400	mg/kg
Sub Soil	CW54-000	12/22/2004	0.5	2.5	Acetone	77.000	21.000	102000000.0	NA	ug/kg
Sub Soil	CW54-000	12/22/2004	2.5	4.5	Aluminum	49000.000	NA	228000.0	15713.070	mg/kg
Sub Soil	CW54-000	12/22/2004	2.5	4.5	Americium-241	1.320	NA	76.0	0.270	pCi/g
Sub Soil	CW54-000	12/22/2004	2.5	4.5	Aroclor-1254	36.000	30.000	12400.0	NA	ug/kg
Sub Soil	CW54-000	12/22/2004	2.5	4.5	Arsenic	11.000	NA	22.2	7.240	mg/kg
Sub Soil	CW54-000	12/22/2004	2.5	4.5	Barium	390.000	NA	26400.0	188.170	mg/kg
Sub Soil	CW54-000	12/22/2004	2.5	4.5	Benzoic Acid	2100.000	1300.000	1000000000.0	NA	ug/kg
Sub Soil	CW54-000	12/22/2004	2.5	4.5	bis(2-Ethylhexyl)phthalate	490.000	320.000	1970000.0	NA	ug/kg
Sub Soil	CW54-000	12/22/2004	2.5	4.5	Chromium	44.000	NA	268.0	23.230	mg/kg
Sub Soil	CW54-000	12/22/2004	2.5	4.5	Cobalt	15.000	NA	1550.0	12.500	mg/kg
Sub Soil	CW54-000	12/22/2004	2.5	4.5	Copper	49.000	NA	40900.0	27.270	mg/kg
Sub Soil	CW54-000	12/22/2004	2.5	4.5	Iron	39000.000	NA	3970000.0	21379.010	mg/kg
Sub Soil	CW54-000	12/22/2004	2.5	4.5	Lithium	37.000	NA	20400.0	29.670	mg/kg
Sub Soil	CW54-000	12/22/2004	2.5	4.5	Manganese	900.000	NA	3480.0	659.220	mg/kg
Sub Soil	CW54-000	12/22/2004	2.5	4.5	Methylene chloride	7.700	3.700	2530000.0	NA	ug/kg
Sub Soil	CW54-000	12/22/2004	2.5	4.5	Nickel	54.000	NA	20400.0	17.890	mg/kg
Sub Soil	CW54-000	12/22/2004	2.5	4.5	Plutonium-239/240	3.590	NA	50.0	1.350	pCi/g
Sub Soil	CW54-000	12/22/2004	2.5	4.5	Strontium	220.000	NA	613000.0	201.440	pCi/g
Sub Soil	CW54-000	12/22/2004	2.5	4.5	Uranium-238	4.550	NA	351.0	3.460	pCi/g
Sub Soil	CW54-000	12/22/2004	2.5	4.5	Vanadium	96.000	NA	7150.0	46.830	mg/kg
Sub Soil	CW54-000	12/22/2004	2.5	4.5	Zinc	170.000	NA	307000.0	104.400	mg/kg
Sub Soil	CW54-000	12/22/2004	2.5	4.5	2-Butanone	12.000	6.400	192000000.0	NA	ug/kg
Sub Soil	CW54-000	12/22/2004	4.5	6.5	Acetone	52.000	6.300	102000000.0	NA	ug/kg
Sub Soil	CW54-000	12/22/2004	4.5	6.5	Americium-241	1.400	NA	76.0	0.020	pCi/g
Sub Soil	CW54-000	12/22/2004	4.5	6.5	bis(2-Ethylhexyl)phthalate	250.000	96.000	1970000.0	NA	ug/kg
Sub Soil	CW54-000	12/22/2004	4.5	6.5	Methylene chloride	2.600	1.100	2530000.0	NA	ug/kg
Sub Soil	CW54-000	12/22/2004	4.5	6.5	Plutonium-239/240	2.610	NA	50.0	0.020	pCi/g
Sub Soil	CW54-000	12/22/2004	4.5	6.5	Uranium-238	2.070	NA	351.0	1.490	ug/kg
Sub Soil	CW54-000	12/22/2004	4.5	6.5	Acetone	54.000	5.200	102000000.0	NA	ug/kg
Sub Soil	CW54-000	12/22/2004	6.5	8.5	Methylene chloride	2.700	0.900	2530000.0	NA	
Sub Soil	CW54-000	12/22/2004	6.5	8.5						

KEY

- Sampling location
- Pond
- IHSS
- Stream

N

W E

S

50 0 50 100 150 200 Feet

Scale 1:1,200

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared for:

KAISER•HILL COMPANY

Prepared by:

RADMS

File: W: Projects/Fy2005/Ponds/DSR/Agency_pondresults.apr

Date: October 2005

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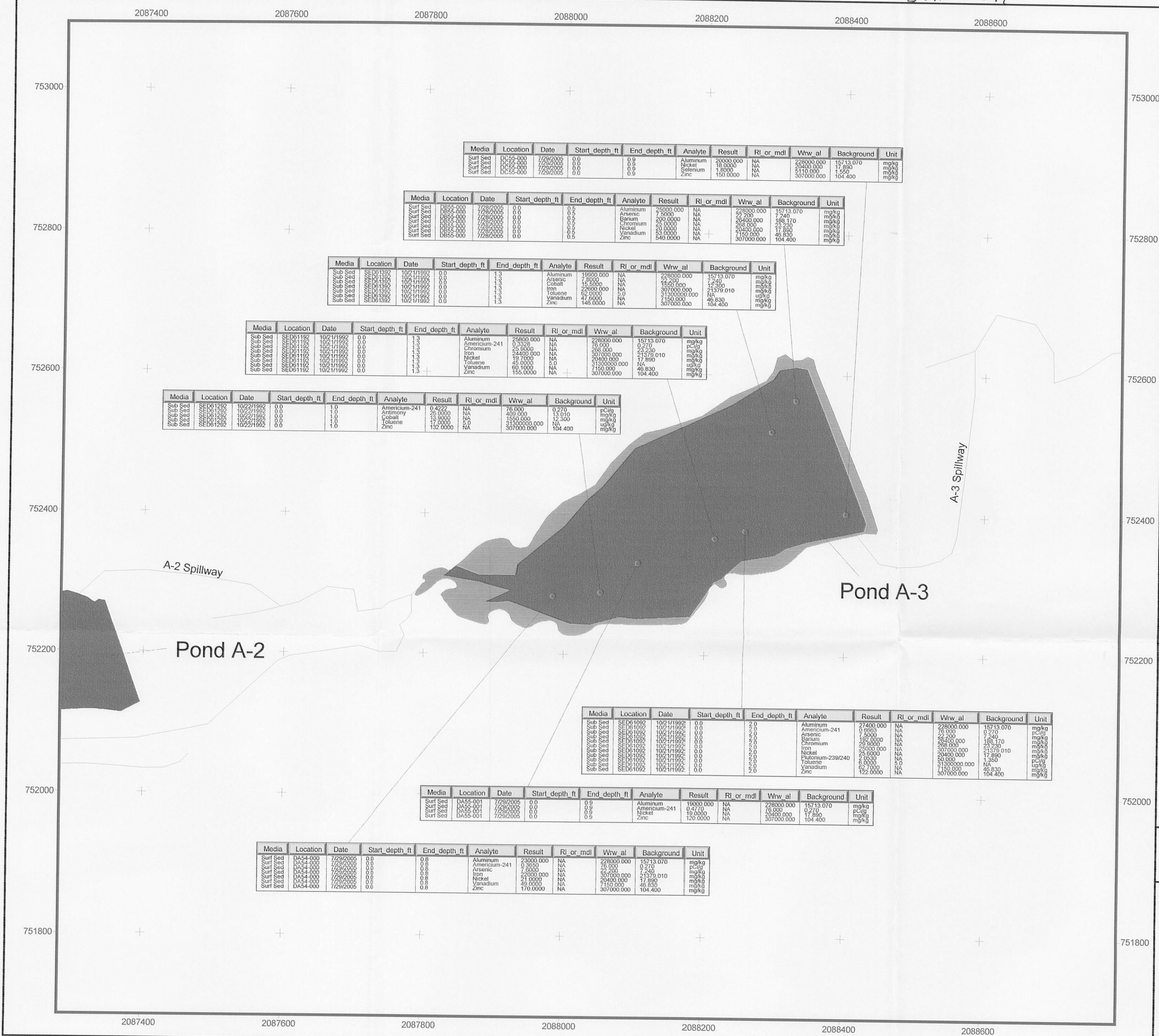
Figure 4
Pond A-3 Sample Locations And Results Greater Than Background Means Plus Two Standard Deviations or Reporting Limits



Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Surf Sed	DC55-000	7/29/2005	0.0	0.9	Aluminum	20000.000	NA	228000.000	15713.070	mg/kg
Surf Sed	DC55-000	7/29/2005	0.0	0.9	Nickel	18.0000	NA	20400.000	17.890	mg/kg
Surf Sed	DC55-000	7/29/2005	0.0	0.9	Selenium	1.8000	NA	5110.000	1.550	mg/kg
Surf Sed	DC55-000	7/29/2005	0.0	0.9	Zinc	150.0000	NA	307000.000	104.400	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Surf Sed	DB55-000	7/28/2005	0.0	0.5	Aluminum	25000.000	NA	228000.000	15713.070	mg/kg
Surf Sed	DB55-000	7/28/2005	0.0	0.5	Arsenic	7.5000	NA	22.200	7.240	mg/kg
Surf Sed	DB55-000	7/28/2005	0.0	0.5	Barium	200.0000	NA	26400.000	168.170	mg/kg
Surf Sed	DB55-000	7/28/2005	0.0	0.5	Chromium	25.0000	NA	268.000	23.230	mg/kg
Surf Sed	DB55-000	7/28/2005	0.0	0.5	Nickel	20.0000	NA	20400.000	17.890	mg/kg
Surf Sed	DB55-000	7/28/2005	0.0	0.5	Vanadium	53.0000	NA	7150.000	46.830	mg/kg
Surf Sed	DB55-000	7/28/2005	0.0	0.5	Zinc	540.0000	NA	307000.000	104.400	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Sub Sed	SED61392	10/21/1992	0.0	1.3	Aluminum	19900.000	NA	228000.000	15713.070	mg/kg
Sub Sed	SED61392	10/21/1992	0.0	1.3	Arsenic	7.8000	NA	22.200	7.240	mg/kg
Sub Sed	SED61392	10/21/1992	0.0	1.3	Cobalt	15.5000	NA	1550.000	12.300	mg/kg
Sub Sed	SED61392	10/21/1992	0.0	1.3	Iron	22600.000	NA	307000.000	21379.010	mg/kg
Sub Sed	SED61392	10/21/1992	0.0	1.3	Toluene	62.0000	5.0	31300000.000	NA	ug/kg
Sub Sed	SED61392	10/21/1992	0.0	1.3	Vanadium	47.6000	NA	7150.000	46.830	mg/kg
Sub Sed	SED61392	10/21/1992	0.0	1.3	Zinc	146.0000	NA	307000.000	104.400	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Sub Sed	SED61192	10/21/1992	0.0	1.3	Aluminum	25800.000	NA	228000.000	15713.070	mg/kg
Sub Sed	SED61192	10/21/1992	0.0	1.3	Americium-241	0.3328	NA	76.000	0.270	pCi/g
Sub Sed	SED61192	10/21/1992	0.0	1.3	Chromium	25.9000	NA	268.000	23.230	mg/kg
Sub Sed	SED61192	10/21/1992	0.0	1.3	Iron	24400.000	NA	307000.000	21379.010	mg/kg
Sub Sed	SED61192	10/21/1992	0.0	1.3	Nickel	19.7000	NA	20400.000	17.890	mg/kg
Sub Sed	SED61192	10/21/1992	0.0	1.3	Toluene	45.0000	5.0	31300000.000	NA	ug/kg
Sub Sed	SED61192	10/21/1992	0.0	1.3	Vanadium	60.1000	NA	7150.000	46.830	mg/kg
Sub Sed	SED61192	10/21/1992	0.0	1.3	Zinc	155.0000	NA	307000.000	104.400	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Sub Sed	SED61292	10/22/1992	0.0	1.0	Americium-241	0.4222	NA	76.000	0.270	pCi/g
Sub Sed	SED61292	10/22/1992	0.0	1.0	Antimony	26.0000	NA	409.000	13.010	mg/kg
Sub Sed	SED61292	10/22/1992	0.0	1.0	Cobalt	13.9000	NA	1550.000	12.300	mg/kg
Sub Sed	SED61292	10/22/1992	0.0	1.0	Toluene	17.0000	5.0	31300000.000	NA	ug/kg
Sub Sed	SED61292	10/22/1992	0.0	1.0	Zinc	132.0000	NA	307000.000	104.400	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Sub Sed	SED61092	10/21/1992	0.0	2.0	Aluminum	27400.000	NA	228000.000	15713.070	mg/kg
Sub Sed	SED61092	10/21/1992	0.0	2.0	Americium-241	0.6663	NA	76.000	0.270	pCi/g
Sub Sed	SED61092	10/21/1992	0.0	2.0	Arsenic	7.5000	NA	22.200	7.240	mg/kg
Sub Sed	SED61092	10/21/1992	0.0	2.0	Barium	182.0000	NA	26400.000	168.170	mg/kg
Sub Sed	SED61092	10/21/1992	0.0	2.0	Chromium	29.9000	NA	268.000	23.230	mg/kg
Sub Sed	SED61092	10/21/1992	0.0	2.0	Iron	25000.000	NA	307000.000	21379.010	mg/kg
Sub Sed	SED61092	10/21/1992	0.0	2.0	Nickel	25.6000	NA	20400.000	17.890	mg/kg
Sub Sed	SED61092	10/21/1992	0.0	2.0	Plutonium-239/240	2.0530	NA	50.000	1.350	pCi/g
Sub Sed	SED61092	10/21/1992	0.0	2.0	Toluene	6.0000	5.0	31300000.000	NA	ug/kg
Sub Sed	SED61092	10/21/1992	0.0	2.0	Vanadium	62.7000	NA	7150.000	46.830	mg/kg
Sub Sed	SED61092	10/21/1992	0.0	2.0	Zinc	122.0000	NA	307000.000	104.400	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Surf Sed	DA55-001	7/29/2005	0.0	0.9	Aluminum	19000.000	NA	228000.000	15713.070	mg/kg
Surf Sed	DA55-001	7/29/2005	0.0	0.9	Americium-241	0.4770	NA	76.000	0.270	pCi/g
Surf Sed	DA55-001	7/29/2005	0.0	0.9	Nickel	19.0000	NA	20400.000	17.890	mg/kg
Surf Sed	DA55-001	7/29/2005	0.0	0.9	Zinc	120.0000	NA	307000.000	104.400	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Surf Sed	DA54-000	7/29/2005	0.0	0.8	Aluminum	23000.000	NA	228000.000	15713.070	mg/kg
Surf Sed	DA54-000	7/29/2005	0.0	0.8	Americium-241	0.3650	NA	76.000	0.270	pCi/g
Surf Sed	DA54-000	7/29/2005	0.0	0.8	Arsenic	7.6000	NA	22.200	7.240	mg/kg
Surf Sed	DA54-000	7/29/2005	0.0	0.8	Iron	22000.000	NA	307000.000	21379.010	mg/kg
Surf Sed	DA54-000	7/29/2005	0.0	0.8	Nickel	21.0000	NA	20400.000	17.890	mg/kg
Surf Sed	DA54-000	7/29/2005	0.0	0.8	Vanadium	49.0000	NA	7150.000	46.830	mg/kg
Surf Sed	DA54-000	7/29/2005	0.0	0.8	Zinc	170.0000	NA	307000.000	104.400	mg/kg

KEY

- Sampling location
- Pond
- IHSS
- Stream

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Scale 1:1,200

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared for: KAISER-HILL COMPANY

Prepared by: RADMS

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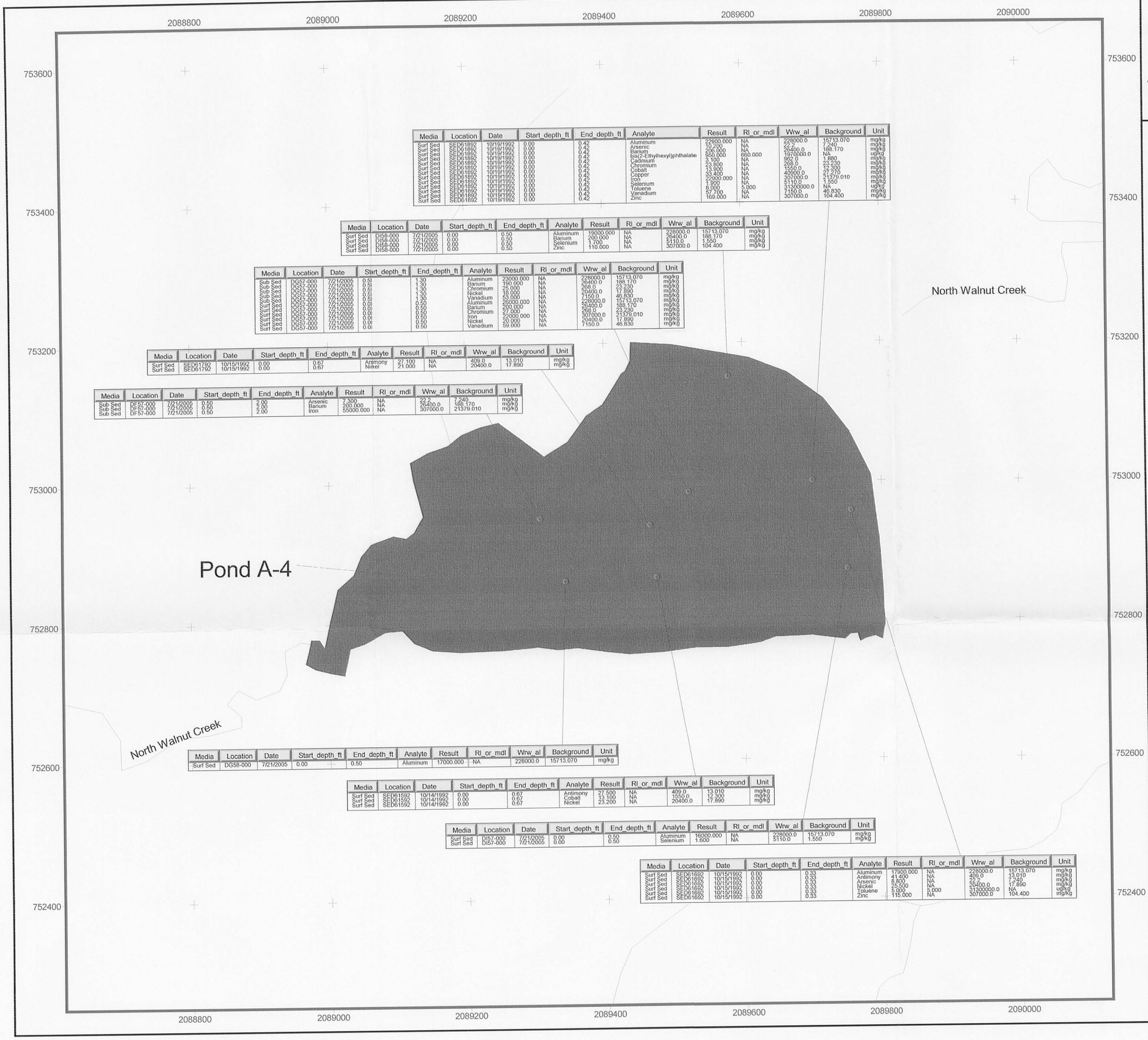
Figure 5
Pond A-4 Sample Locations And Results Greater Than Background Means Plus Two Standard Deviations or Reporting Limits



Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Surf Sed	SED61892	10/19/1992	0.00	0.42	Aluminum	22900.000	NA	228000.0	15713.070	mg/kg
Surf Sed	SED61892	10/19/1992	0.00	0.42	Arsenic	10.200	NA	22.2	7.240	mg/kg
Surf Sed	SED61892	10/19/1992	0.00	0.42	Barium	206.000	NA	26400.0	188.170	mg/kg
Surf Sed	SED61892	10/19/1992	0.00	0.42	bis(2-Ethylhexyl)phthalate	950.000	660.000	1970000.0	NA	ug/kg
Surf Sed	SED61892	10/19/1992	0.00	0.42	Cadmium	3.100	NA	962.0	1.880	mg/kg
Surf Sed	SED61892	10/19/1992	0.00	0.42	Chromium	23.800	NA	268.0	23.230	mg/kg
Surf Sed	SED61892	10/19/1992	0.00	0.42	Cobalt	13.900	NA	1550.0	12.300	mg/kg
Surf Sed	SED61892	10/19/1992	0.00	0.42	Copper	33.400	NA	40800.0	27.270	mg/kg
Surf Sed	SED61892	10/19/1992	0.00	0.42	Iron	22900.000	NA	307000.0	21379.010	mg/kg
Surf Sed	SED61892	10/19/1992	0.00	0.42	Selenium	1.900	NA	5110.0	1.550	mg/kg
Surf Sed	SED61892	10/19/1992	0.00	0.42	Toluene	8.000	5.000	31300000.0	NA	ug/kg
Surf Sed	SED61892	10/19/1992	0.00	0.42	Vanadium	57.700	NA	7150.0	46.830	mg/kg
Surf Sed	SED61892	10/19/1992	0.00	0.42	Zinc	169.000	NA	307000.0	104.400	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Surf Sed	DI58-000	7/21/2005	0.00	0.50	Aluminum	19000.000	NA	228000.0	15713.070	mg/kg
Surf Sed	DI58-000	7/21/2005	0.00	0.50	Barium	200.000	NA	26400.0	188.170	mg/kg
Surf Sed	DI58-000	7/21/2005	0.00	0.50	Selenium	1.700	NA	5110.0	1.550	mg/kg
Surf Sed	DI58-000	7/21/2005	0.00	0.50	Zinc	110.000	NA	307000.0	104.400	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Sub Sed	DG57-000	7/21/2005	0.5	1.30	Aluminum	23000.000	NA	228000.0	15713.070	mg/kg
Sub Sed	DG57-000	7/21/2005	0.5	1.30	Barium	190.000	NA	26400.0	188.170	mg/kg
Sub Sed	DG57-000	7/21/2005	0.5	1.30	Chromium	25.000	NA	268.0	23.230	mg/kg
Sub Sed	DG57-000	7/21/2005	0.5	1.30	Nickel	18.000	NA	20400.0	17.890	mg/kg
Sub Sed	DG57-000	7/21/2005	0.5	1.30	Vanadium	53.000	NA	7150.0	46.830	mg/kg
Surf Sed	DG57-000	7/21/2005	0.0	0.50	Aluminum	26000.000	NA	228000.0	15713.070	mg/kg
Surf Sed	DG57-000	7/21/2005	0.0	0.50	Barium	200.000	NA	26400.0	188.170	mg/kg
Surf Sed	DG57-000	7/21/2005	0.0	0.50	Chromium	27.000	NA	268.0	23.230	mg/kg
Surf Sed	DG57-000	7/21/2005	0.0	0.50	Iron	22000.000	NA	307000.0	21379.010	mg/kg
Surf Sed	DG57-000	7/21/2005	0.0	0.50	Nickel	20.000	NA	20400.0	17.890	mg/kg
Surf Sed	DG57-000	7/21/2005	0.0	0.50	Vanadium	59.000	NA	7150.0	46.830	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Surf Sed	SED61792	10/15/1992	0.00	0.67	Antimony	27.100	NA	409.0	13.010	mg/kg
Surf Sed	SED61792	10/15/1992	0.00	0.67	Nickel	21.000	NA	20400.0	17.890	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Sub Sed	DF57-000	7/21/2005	0.50	2.00	Arsenic	7.300	NA	22.2	7.240	mg/kg
Sub Sed	DF57-000	7/21/2005	0.50	2.00	Barium	200.000	NA	26400.0	188.170	mg/kg
Sub Sed	DF57-000	7/21/2005	0.50	2.00	Iron	55000.000	NA	307000.0	21379.010	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Surf Sed	DG58-000	7/21/2005	0.00	0.50	Aluminum	17000.000	NA	228000.0	15713.070	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Surf Sed	SED61592	10/14/1992	0.00	0.67	Antimony	27.500	NA	409.0	13.010	mg/kg
Surf Sed	SED61592	10/14/1992	0.00	0.67	Cobalt	13.100	NA	1550.0	12.300	mg/kg
Surf Sed	SED61592	10/14/1992	0.00	0.67	Nickel	23.200	NA	20400.0	17.890	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Surf Sed	DI57-000	7/21/2005	0.00	0.50	Aluminum	16000.000	NA	228000.0	15713.070	mg/kg
Surf Sed	DI57-000	7/21/2005	0.00	0.50	Selenium	1.600	NA	5110.0	1.550	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Surf Sed	SED61692	10/15/1992	0.00	0.33	Aluminum	17900.000	NA	228000.0	15713.070	mg/kg
Surf Sed	SED61692	10/15/1992	0.00	0.33	Antimony	41.400	NA	409.0	13.010	mg/kg
Surf Sed	SED61692	10/15/1992	0.00	0.33	Arsenic	8.800	NA	22.2	7.240	mg/kg
Surf Sed	SED61692	10/15/1992	0.00	0.33	Nickel	25.500	NA	26400.0	17.890	mg/kg
Surf Sed	SED61692	10/15/1992	0.00	0.33	Toluene	5.000	5.000	31300000.0	NA	ug/kg
Surf Sed	SED61692	10/15/1992	0.00	0.33	Zinc	115.000	NA	307000.0	104.400	mg/kg

KEY

- Sampling location
- Pond
- IHSS
- Stream

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Scale 1:1,200

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared for: KAISER-HILL COMPANY

Prepared by: RADMS

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Figure 6
Pond A-5 Sample Locations And Results Greater Than Background Means Plus Two Standard Deviations or Reporting Limits

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Sed	SED64992	11/19/1992	0.00	0.67	Cobalt	13.300	NA	1550.0	12.300	mg/kg
Surf Sed	SED64992	11/19/1992	0.00	0.67	Nickel	18.100	NA	20400.0	17.890	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Sed	EC61-000	7/13/2005	0.00	0.50	Aluminum	21000.000	NA	228000.0	15713.070	mg/kg
Surf Sed	EC61-000	7/13/2005	0.00	0.50	Barium	220.000	NA	26400.0	188.170	mg/kg
Surf Sed	EC61-000	7/13/2005	0.00	0.50	Iron	22000.000	NA	307000.0	21379.010	mg/kg
Surf Sed	EC61-000	7/13/2005	0.00	0.50	Nickel	19.000	NA	20400.0	17.890	mg/kg
Surf Sed	EC61-000	7/13/2005	0.00	0.50	Zinc	130.000	NA	307000.0	104.400	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Sed	SED64792	11/19/1992	0.00	0.42	Toluene	18.000	5.000	31300000.0	NA	ug/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Sub Soil	A50302	1/9/2002	2.00	6.00	Uranium, Total	10.500	NA	2750.0	3.040	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Soil	A50402	1/14/2002	0.08	0.17	Lithium	13.100	NA	20400.0	11.550	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Soil	A50502	1/14/2002	0.08	0.17	Lithium	11.800	NA	20400.0	11.550	mg/kg
Surf Soil	A50502	1/14/2002	0.08	0.17	Nickel	18.200	NA	20400.0	14.910	mg/kg
Surf Soil	A50502	1/14/2002	0.08	0.17	Strontium	56.000	NA	613000.0	48.940	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Soil	A50602	1/14/2002	0.08	0.17	Nickel	15.600	NA	20400.0	14.910	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Soil	A50702	1/14/2002	0.08	0.17	Cadmium	1.700	NA	962.0	1.612	mg/kg
Surf Soil	A50702	1/14/2002	0.08	0.17	Lithium	11.600	NA	20400.0	11.550	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Soil	A50802	1/14/2002	0.08	0.17	Strontium	52.700	NA	613000.0	48.940	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Sed	SED64592	11/19/1992	0.00	0.50	Acetone	210.000	100.000	102000000.0	NA	ug/kg
Surf Sed	SED64592	11/19/1992	0.00	0.50	Toluene	18.000	5.000	31300000.0	NA	ug/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Sub Sed	SED64692	11/19/1992	0.00	1.92	Toluene	16.000	5.000	31300000.0	NA	ug/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Sed	SED64892	11/19/1992	0.00	1.00	Toluene	13.000	5.000	31300000.0	NA	ug/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Sed	EC61-001	7/13/2005	0.00	0.50	Aluminum	17000.000	NA	228000.0	15713.070	mg/kg
Sub Sed	EC61-001	7/13/2005	0.50	2.50	Aluminum	17000.000	NA	228000.0	15713.070	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Soil	A50102	1/14/2002	0.08	0.17	Iron	20800.000	NA	307000.0	18037.000	mg/kg
Surf Soil	A50102	1/14/2002	0.08	0.17	Nickel	17.200	NA	20400.0	14.910	mg/kg
Surf Soil	A50102	1/14/2002	0.08	0.17	Plutonium-239/240	0.285	NA	50.0	0.056	pCi/g
Sub Soil	A50102	1/9/2002	2.00	6.00	Americium-241	0.076	NA	76.0	0.020	pCi/g
Sub Soil	A50102	1/9/2002	2.00	6.00	Plutonium-239/240	0.065	NA	50.0	0.020	pCi/g

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Soil	A50202	1/14/2002	0.08	0.17	Americium-241	0.122	NA	76.0	0.023	pCi/g
Surf Soil	A50202	1/14/2002	0.08	0.17	Cadmium	1.650	NA	962.0	1.612	mg/kg
Surf Soil	A50202	1/14/2002	0.08	0.17	Lithium	11.900	NA	20400.0	11.550	mg/kg
Surf Soil	A50202	1/14/2002	0.08	0.17	Plutonium-239/240	0.239	NA	50.0	0.056	pCi/g
Sub Soil	A50202	1/9/2002	2.00	6.00	Americium-241	0.032	NA	76.0	0.020	pCi/g
Sub Soil	A50202	1/9/2002	2.00	6.00	Plutonium-239/240	0.040	NA	50.0	0.020	pCi/g

KEY

- Sampling location
- Pond
- IHSS
- Stream

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Scale 1:1,200

State Plane Coordinate Projection
Colorado Central Zone
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Prepared for: KAISER•HILL COMPANY

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Date: October 2005

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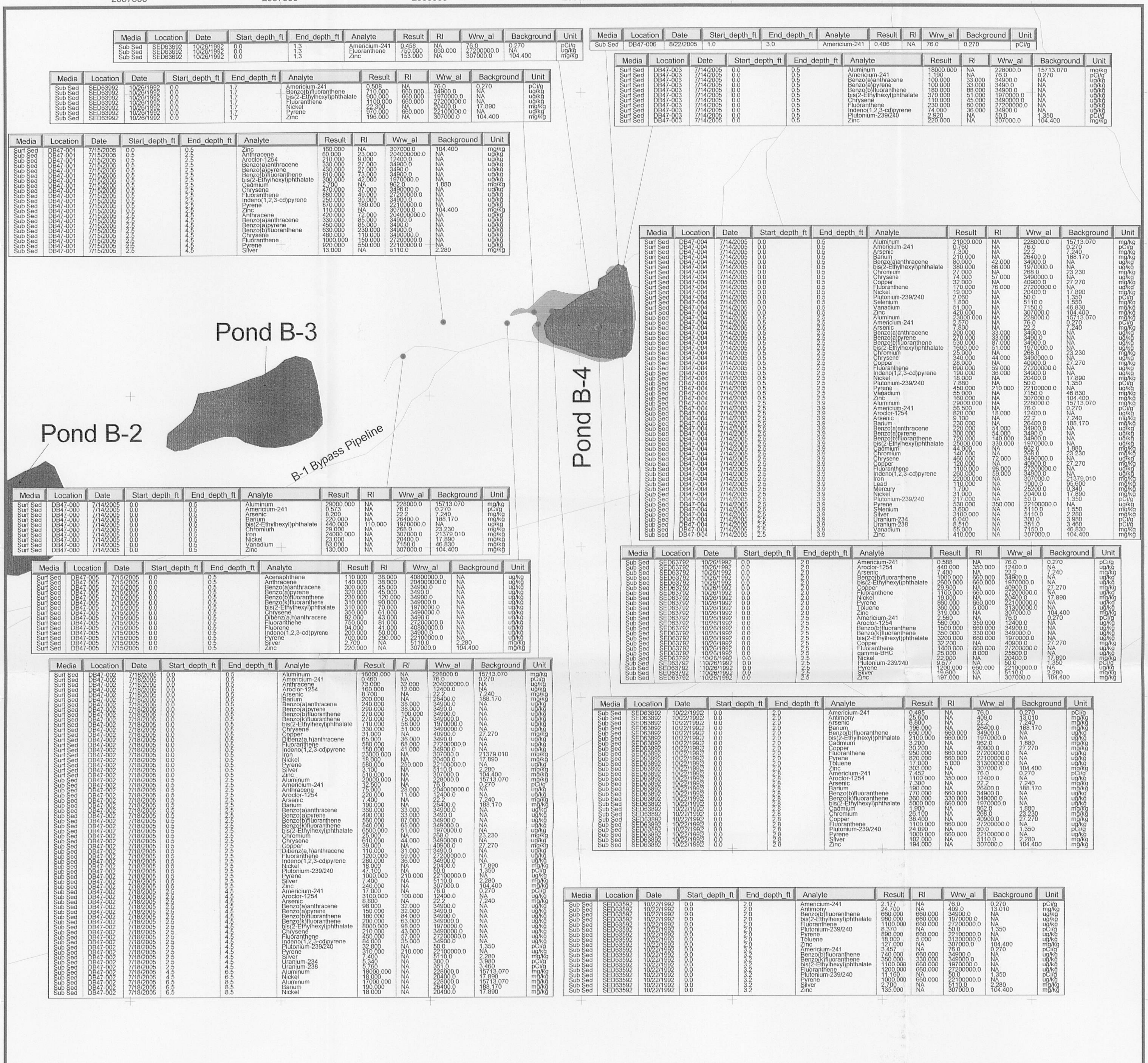
Figure 7
Pond B-4 Sample Locations And Results Greater Than Background Means Plus Two Standard Deviations or Reporting Limits



Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI	Wrw_al	Background	Unit
Sub Sed	SED63692	10/26/1992	0.0	1.3	Americium-241	0.458	NA	76.0	0.270	pCi/g
Sub Sed	SED63692	10/26/1992	0.0	1.3	Fluoranthene	750.000	660.000	27200000.0	NA	ug/kg
Sub Sed	SED63692	10/26/1992	0.0	1.3	Zinc	153.000	NA	307000.0	104.400	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI	Wrw_al	Background	Unit
Sub Sed	DB47-006	8/22/2005	1.0	3.0	Americium-241	0.406	NA	76.0	0.270	pCi/g

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI	Wrw_al	Background	Unit
Sub Sed	SED63992	10/26/1992	0.0	1.7	Americium-241	0.508	NA	76.0	0.270	pCi/g
Sub Sed	SED63992	10/26/1992	0.0	1.7	Benzo(b)fluoranthene	710.000	660.000	34900.0	NA	ug/kg
Sub Sed	SED63992	10/26/1992	0.0	1.7	bis(2-Ethylhexyl)phthalate	900.000	660.000	1970000.0	NA	ug/kg
Sub Sed	SED63992	10/26/1992	0.0	1.7	Fluoranthene	1100.000	660.000	27200000.0	NA	ug/kg
Sub Sed	SED63992	10/26/1992	0.0	1.7	Nickel	22.300	NA	20400.0	17.890	mg/kg
Sub Sed	SED63992	10/26/1992	0.0	1.7	Pyrene	970.000	660.000	22100000.0	NA	ug/kg
Sub Sed	SED63992	10/26/1992	0.0	1.7	Zinc	196.000	NA	307000.0	104.400	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI	Wrw_al	Background	Unit
Surf Sed	DB47-003	7/14/2005	0.0	0.5	Aluminum	18000.000	NA	228000.0	15713.070	mg/kg
Surf Sed	DB47-003	7/14/2005	0.0	0.5	Americium-241	1.190	NA	76.0	0.270	pCi/g
Surf Sed	DB47-003	7/14/2005	0.0	0.5	Benzo(a)anthracene	100.000	33.000	34900.0	NA	ug/kg
Surf Sed	DB47-003	7/14/2005	0.0	0.5	Benzo(a)pyrene	100.000	33.000	3490.0	NA	ug/kg
Surf Sed	DB47-003	7/14/2005	0.0	0.5	Benzo(b)fluoranthene	180.000	88.000	34900.0	NA	ug/kg
Surf Sed	DB47-003	7/14/2005	0.0	0.5	bis(2-Ethylhexyl)phthalate	370.000	51.000	1970000.0	NA	ug/kg
Surf Sed	DB47-003	7/14/2005	0.0	0.5	Chrysene	110.000	45.000	3490000.0	NA	ug/kg
Surf Sed	DB47-003	7/14/2005	0.0	0.5	Fluoranthene	230.000	60.000	27200000.0	NA	ug/kg
Surf Sed	DB47-003	7/14/2005	0.0	0.5	Indeno(1,2,3-cd)pyrene	74.000	36.000	34900.0	NA	ug/kg
Surf Sed	DB47-003	7/14/2005	0.0	0.5	Plutonium-239/240	2.920	NA	50.0	1.350	pCi/g
Surf Sed	DB47-003	7/14/2005	0.0	0.5	Zinc	220.000	NA	307000.0	104.400	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI	Wrw_al	Background	Unit
Surf Sed	DB47-001	7/15/2005	0.0	0.5	Zinc	160.000	NA	307000.0	104.400	mg/kg
Sub Sed	DB47-001	7/15/2005	0.5	2.5	Anthracene	60.000	23.000	204000000.0	NA	ug/kg
Sub Sed	DB47-001	7/15/2005	0.5	2.5	Aroclor-1254	210.000	9.000	12400.0	NA	ug/kg
Sub Sed	DB47-001	7/15/2005	0.5	2.5	Benzo(a)anthracene	330.000	27.000	34900.0	NA	ug/kg
Sub Sed	DB47-001	7/15/2005	0.5	2.5	Benzo(a)pyrene	430.000	27.000	3490.0	NA	ug/kg
Sub Sed	DB47-001	7/15/2005	0.5	2.5	Benzo(b)fluoranthene	810.000	73.000	34900.0	NA	ug/kg
Sub Sed	DB47-001	7/15/2005	0.5	2.5	bis(2-Ethylhexyl)phthalate	300.000	42.000	1970000.0	NA	ug/kg
Sub Sed	DB47-001	7/15/2005	0.5	2.5	Cadmium	2.700	NA	962.0	1.880	mg/kg
Sub Sed	DB47-001	7/15/2005	0.5	2.5	Chrysene	470.000	37.000	3490000.0	NA	ug/kg
Sub Sed	DB47-001	7/15/2005	0.5	2.5	Fluoranthene	880.000	49.000	27200000.0	NA	ug/kg
Sub Sed	DB47-001	7/15/2005	0.5	2.5	Indeno(1,2,3-cd)pyrene	250.000	30.000	34900.0	NA	ug/kg
Sub Sed	DB47-001	7/15/2005	0.5	2.5	Pyrene	870.000	180.000	22100000.0	NA	ug/kg
Sub Sed	DB47-001	7/15/2005	0.5	2.5	Zinc	110.000	NA	307000.0	104.400	mg/kg
Sub Sed	DB47-001	7/15/2005	2.5	4.5	Anthracene	420.000	72.000	204000000.0	NA	ug/kg
Sub Sed	DB47-001	7/15/2005	2.5	4.5	Benzo(a)anthracene	330.000	85.000	34900.0	NA	ug/kg
Sub Sed	DB47-001	7/15/2005	2.5	4.5	Benzo(a)pyrene	450.000	85.000	3490.0	NA	ug/kg
Sub Sed	DB47-001	7/15/2005	2.5	4.5	Benzo(b)fluoranthene	630.000	230.000	34900.0	NA	ug/kg
Sub Sed	DB47-001	7/15/2005	2.5	4.5	Chrysene	480.000	110.000	3490000.0	NA	ug/kg
Sub Sed	DB47-001	7/15/2005	2.5	4.5	Fluoranthene	1000.000	150.000	27200000.0	NA	ug/kg
Sub Sed	DB47-001	7/15/2005	2.5	4.5	Pyrene	920.000	550.000	22100000.0	NA	ug/kg
Sub Sed	DB47-001	7/15/2005	2.5	4.5	Silver	13.000	NA	5110.0	2.280	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI	Wrw_al	Background	Unit
Surf Sed	DB47-004	7/14/2005	0.0	0.5	Aluminum	21000.000	NA	228000.0	15713.070	mg/kg
Surf Sed	DB47-004	7/14/2005	0.0	0.5	Americium-241	0.760	NA	76.0	0.270	pCi/g
Surf Sed	DB47-004	7/14/2005	0.0	0.5	Arsenic	7.300	NA	22.2	7.240	mg/kg
Surf Sed	DB47-004	7/14/2005	0.0	0.5	Barium	210.000	NA	26400.0	188.170	mg/kg
Surf Sed	DB47-004	7/14/2005	0.0	0.5	Benzo(a)anthracene	80.000	42.000	34900.0	NA	ug/kg
Surf Sed	DB47-004	7/14/2005	0.0	0.5	bis(2-Ethylhexyl)phthalate	380.000	66.000	1970000.0	NA	ug/kg
Surf Sed	DB47-004	7/14/2005	0.0	0.5	Chromium	27.000	NA	268.0	23.230	mg/kg
Surf Sed	DB47-004	7/14/2005	0.0	0.5	Chrysene	74.000	57.000	3490000.0	NA	ug/kg
Surf Sed	DB47-004	7/14/2005	0.0	0.5	Copper	32.000	NA	40900.0	27.270	mg/kg
Surf Sed	DB47-004	7/14/2005	0.0	0.5	Fluoranthene	170.000	76.000	27200000.0	NA	ug/kg
Surf Sed	DB47-004	7/14/2005	0.0	0.5	Nickel	19.000	NA	20400.0	17.890	mg/kg
Surf Sed	DB47-004	7/14/2005	0.0	0.5	Plutonium-239/240	2.060	NA	50.0	1.350	pCi/g
Surf Sed	DB47-004	7/14/2005	0.0	0.5	Selenium	1.800	NA	5110.0	1.550	mg/kg
Surf Sed	DB47-004	7/14/2005	0.0	0.5	Vanadium	51.000	NA	7150.0	46.830	mg/kg
Surf Sed	DB47-004	7/14/2005	0.0	0.5	Zinc	420.000	NA	307000.0	104.400	mg/kg
Sub Sed	DB47-004	7/14/2005	0.5	2.5	Aluminum	23000.000	NA	228000.0	15713.070	mg/kg
Sub Sed	DB47-004	7/14/2005	0.5	2.5	Americium-241	2.570	NA	76.0	0.270	pCi/g
Sub Sed	DB47-004	7/14/2005	0.5	2.5	Arsenic	7.800	NA	22.2	7.240	mg/kg
Sub Sed	DB47-004	7/14/2005	0.5	2.5	Benzo(a)anthracene	200.000	33.000	34900.0	NA	ug/kg
Sub Sed	DB47-004	7/14/2005	0.5	2.5	Benzo(a)pyrene	270.000	33.000	3490.0	NA	ug/kg
Sub Sed	DB47-004	7/14/2005	0.5	2.5	Benzo(b)fluoranthene	530.000	87.000	34900.0	NA	ug/kg
Sub Sed	DB47-004	7/14/2005	0.5	2.5	bis(2-Ethylhexyl)phthalate	1600.000	51.000	1970000.0	NA	ug/kg
Sub Sed	DB47-004	7/14/2005	0.5	2.5	Chromium	25.000	NA	268.0	23.230	mg/kg
Sub Sed	DB47-004	7/14/2005	0.5	2.5	Chrysene	340.000	44.000	3490000.0	NA	ug/kg
Sub Sed	DB47-004	7/14/2005	0.5	2.5	Copper	28.000	NA	40900.0	27.270	mg/kg
Sub Sed	DB47-004	7/14/2005	0.5	2.5	Fluoranthene	690.000	59.000	27200000.0	NA	ug/kg
Sub Sed	DB47-004	7/14/2005	0.5	2.5	Indeno(1,2,3-cd)pyrene	190.000	36.000	34900.0	NA	ug/kg
Sub Sed	DB47-004	7/14/2005	0.5	2.5	Nickel	18.000	NA	20400.0	17.890	mg/kg
Sub Sed	DB47-004	7/14/2005	0.5	2.5	Plutonium-239/240	7.880	NA	50.0	1.350	pCi/g
Sub Sed	DB47-004	7/14/2005	0.5	2.5	Pyrene	450.000	210.000	22100000.0	NA	ug/kg
Sub Sed	DB47-004	7/14/2005	0.5	2.5	Vanadium	55.000	NA	7150.0	46.830	mg/kg
Sub Sed	DB47-004	7/14/2005	0.5	2.5	Zinc	160.000	NA	307000.0	104.400	mg/kg
Sub Sed	DB47-004	7/14/2005	2.5	3.9	Aluminum	29000.000	NA	228000.0	15713.070	mg/kg
Sub Sed	DB47-004	7/14/2005	2.5	3.9	Americium-241	56.500	NA	76.0	0.270	pCi/g
Sub Sed	DB47-004	7/14/2005	2.5	3.9	Aroclor-1254	820.000	18.000	12400.0	NA	ug/kg
Sub Sed	DB47-004	7/14/2005	2.5	3.9	Arsenic	9.100	NA	22.2	7.240	mg/kg
Sub Sed	DB47-004	7/14/2005	2.5	3.9	Barium	230.000	NA	26400.0	188.170	mg/kg
Sub Sed	DB47-004	7/14/2005	2.5	3.9	Benzo(a)anthracene	220.000	54.000	34900.0	NA	ug/kg
Sub Sed	DB47-004	7/14/2005	2.5	3.9	Benzo(a)pyrene	300.000	54.000	3490.0	NA	ug/kg
Sub Sed	DB47-004	7/14/2005	2.5	3.9	Benzo(b)fluoranthene	720.000	140.000	34900.0	NA	ug/kg
Sub Sed	DB47-004	7/14/2005	2.5	3.9	bis(2-Ethylhexyl)phthalate	25000.000	330.000	1970000.0	NA	ug/kg
Sub Sed	DB47-004	7/14/2005	2.5	3.9	Cadmium	44.000	NA	962.0	1.880	mg/kg
Sub Sed	DB47-004	7/14/2005	2.5	3.9	Chromium	140.000	NA	268.0	23.230	mg/kg
Sub Sed	DB47-004	7/14/2005	2.5	3.9	Chrysene	460.000	72.000	3490000.0	NA	ug/kg
Sub Sed	DB47-004	7/14/2005	2.5	3.9	Copper	120.000	NA	40900.0	27.270	mg/kg
Sub Sed	DB47-004	7/14/2005	2.5	3.9	Fluoranthene	1100.000	96.000	27200000.0	NA	ug/kg
Sub Sed	DB47-004	7/14/2005	2.5	3.9	Indeno(1,2,3-cd)pyrene	260.000	59.000	34900.0	NA	ug/kg
Sub Sed	DB47-004	7/14/2005	2.5	3.9	Iron	22000.000	NA	307000.0	21379.010	mg/kg
Sub Sed	DB47-004	7/14/2005	2.5	3.9	Lead	110.000	NA	1000.0	95.600	mg/kg
Sub Sed	DB47-004	7/14/2005	2.5	3.9	Mercury	1.700	NA	25200.0	0.340	mg/kg
Sub Sed	DB47-004	7/14/2005	2.5	3.9	Nickel	31.000	NA	20400.0	17.890	mg/kg
Sub Sed	DB47-004	7/14/2005	2.5	3.9	Plutonium-239/240	217.000	NA	50.0	1.350	pCi/g
Sub Sed	DB47-004	7/14/2005	2.5	3.9	Pyrene	530.000	350.000	22100000.0	NA	ug/kg
Sub Sed	DB47-004	7/14/2005	2.5	3.9	Selenium	3.600	NA	5110.0	1.550	mg/kg
Sub Sed	DB47-004	7/14/2005	2.5	3.9	Silver	3100.000	NA	5110.0	2.280	mg/kg
Sub Sed	DB47-004	7/14/2005	2.5	3.9	Uranium-234	6.040	NA	300.0	3.980	pCi/g
Sub Sed	DB47-004	7/14/2005	2.5	3.9	Uranium-238	8.510	NA	351.0	3.460	pCi/g
Sub Sed	DB47-004	7/14/2005	2.5	3.9	Vanadium	55.000	NA	7150.0	46.830	mg/kg
Sub Sed	DB47-004	7/14/2005	2.5	3.9	Zinc	410.000	NA	307000.0	104.400	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI	Wrw_al	Background	Unit
Surf Sed	DB47-000	7/14/2005	0.0	0.5	Aluminum	29000.000	NA	228000.0	15713.070	mg/kg
Surf Sed	DB47-000	7/14/2005	0.0	0.5	Americium-241	0.573	NA	76.0	0.270	pCi/g
Surf Sed	DB47-000	7/14/2005	0.0	0.5	Arsenic	8.200	NA	22.2	7.240	mg/kg
Surf Sed	DB47-000	7/14/2005	0.0	0.5	Barium	220.000	NA	26400.0	188.170	mg/kg
Surf Sed	DB47-000	7/14/2005	0.0	0.5	bis(2-Ethylhexyl)phthalate	440.000	110.000	1970000.0	NA	ug/kg
Surf Sed	DB47-000	7/14/2005	0.0	0.5	Chromium	29.000	NA	268.0	23.230	mg/kg
Surf Sed	DB47-000	7/14/2005	0.0	0.5	Iron	24000.000	NA	307000.0	21379.010	mg/kg
Surf Sed	DB47-000	7/14/2005	0.0	0.5	Nickel	23.000	NA	20400.0	17.890	mg/kg
Surf Sed	DB47-000	7/14/2005	0.0	0.5	Vanadium	63.000	NA	7150.0	46.830	mg/kg
Surf Sed	DB47-000	7/14/2005	0.0	0.5	Zinc	130.000	NA	307000.0	104.400	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI	Wrw_al	Background	Unit
Sub Sed	SED63792	10/26/1992	0.0	2.0	Americium-241	0.588	NA	76.0	0.270	pCi/g
Sub Sed	SED63792	10/26/1992	0.0	2.0	Aroclor-1254	440.000	350.000	12400.0	NA	ug/kg
Sub Sed	SED63792	10/26/1992	0.0	2.0	Arsenic	7.400	NA	22.2	7.240	mg/kg
Sub Sed	SED63792	10/26/1992	0.0	2.0	Benzo(b)fluoranthene	1000.000	660.000	34900.0	NA	ug/kg
Sub Sed	SED63792	10/26/1992	0.0	2.0	bis(2-Ethylhexyl)phthalate	2600.000	660.000	1970000.0	NA	ug/kg
Sub Sed	SED63792	10/26/1992	0.0	2.0	Copper	29.900	NA	40900.0	27.270	mg/kg
Sub Sed	SED63792	10/26/1992	0.0	2.0	Fluoranthene	1100.000	660.000	27200000.0	NA	ug/kg
Sub Sed	SED63792	10/26/1992	0.0	2.0	Nickel	19.000	NA	20400.0	17.890	mg/kg
Sub Sed	SED63792	10/26/1992	0.0	2.0	Pyrene	860.000	660.000	22100000.0	NA	ug/kg
Sub Sed	SED63792	10/26/1992	0.0	2.0	Toluene	360.000	5.000	31300000.0	NA	ug/kg
Sub Sed	SED63792	10/26/1992	0.0	2.0	Zinc	319.000	NA	307000.0	104.400	mg/kg
Sub Sed	SED63792	10/26/1992	0.0	2.5	Americium-241	2.560	NA	76.0	0.270	pCi/g
Sub Sed	SED63792	10/26/1992	0.0	2.5	Aroclor-1254	560.000	350.000	12400.0	NA	ug/kg
Sub Sed	SED63792	10/26/1992	0.0	2.5	Benzo(b)fluoranthene	1500.000	660.000	34900.0	NA	ug/kg
Sub Sed	SED63792	10/26/1992	0.0	2.5	Benzo(k)fluoranthene	350.000	330.000	349000.0	NA	ug/kg
Sub Sed	SED63792	10/26/1992	0.0	2.5	bis(2-Ethylhexyl)phthalate	3200.000	660.000	1970000.0	NA	ug/kg
Sub Sed	SED63792	10/26/1992	0.0	2.5	Copper	32.200	NA	40900.0	27.270	mg/kg
Sub Sed	SED63792	10/26/1992	0.0	2.5	Fluoranthene	1400.000	660.000	27200000.0	NA	ug/kg
Sub Sed	SED63792	10/26/1992	0.0	2.5	gamma-BHC	25.000	8.000	25500.0	NA	ug/kg
Sub Sed	SED63792	10/26/1992	0.0	2.5	Nickel	22.000	NA	20400.0	17.890	mg/kg
Sub Sed	SED63792	10/26/1992	0.0	2.5	Plutonium-239/240	9.577	NA	50.0	1.350	pCi/g
Sub Sed	SED63792	10/26/1992	0.0	2.5	Pyrene	1200.000	660.000	22100000.0	NA	ug/kg
Sub Sed	SED63792	10/26/1992	0.0	2.5	Silver	19.600	NA	5110.0	2.280	mg/kg
Sub Sed	SED63792	10/26/1992	0.0	2.5	Zinc	197.000	NA	307000.0	104.400	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI	Wrw_al	Background	Unit
Surf Sed	DB47-005	7/15/2005	0.0	0.5	Acenaphthene	110.000	38.000	40800000.0	NA	ug/kg
Surf Sed	DB47-005	7/15/2005	0.0	0.5	Anthracene	140.000	38.000	204000000.0	NA	ug/kg
Surf Sed	DB47-005	7/15/2005	0.0	0.5	Benzo(a)anthracene	300.000	45.000	34900.0	NA	ug/kg
Surf Sed	DB47-005	7/15/2005	0.0	0.5	Benzo(a)pyrene	320.000	45.000	3490.0	NA	ug/kg
Surf Sed	DB47-005	7/15/2005	0.0	0.5	Benzo(b)fluoranthene	230.000	120.000	34900.0	NA	ug/kg
Surf Sed	DB47-005	7/15/2005	0.0	0.5	Benzo(k)fluoranthene	310.000	90.000	349000.0	NA	ug/kg
Surf Sed	DB47-005	7/15/2005	0.0	0.5	bis(2-Ethylhexyl)phthalate	310.000	70.000	1970000.0	NA	ug/kg
Surf Sed	DB47-005	7/15/2005	0.0	0.5	Chrysene	350.000	61.000	3490000.0	NA	ug/kg
Surf Sed	DB47-005	7/15/2005	0.0	0.5	Dibenz(a,h)anthracene	92.000	43.000	3490.0	NA	ug/kg
Surf Sed	DB47-005	7/15/2005	0.0	0.5	Fluoranthene	750.000	81.000	27200000.0	NA	ug/kg
Surf Sed	DB47-005	7/15/2005	0.0	0.5	Fluorene	94.000	41.000	40800000.0	NA	ug/kg
Surf Sed	DB47-005	7/15/2005	0.0	0.5	Indeno(1,2,3-cd)pyrene	200.000	50.000	34900.0	NA	ug/kg
Surf Sed	DB47-005	7/15/2005	0.0	0.5	Pyrene	700.000	290.000	22100000.0	NA	ug/kg
Surf Sed	DB47-005	7/15/2005	0.0	0.5	Silver	2.700	NA	5110.0	2.280	mg/kg
Surf Sed	DB47-005	7/15/2005	0.0	0.5	Zinc	220.000	NA	307000.0	104.400	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI	Wrw_al	Background	Unit
Surf Sed	DB47-002	7/18/2005	0.0	0.5	Aluminum	16000.000	NA	228000.0	15713.070	mg/kg
Surf Sed	DB47-002	7/18/2005	0.0	0.5	Americium-241	0.460	NA	76.0	0.270	pCi/g
Surf Sed	DB47-002	7/18/2005	0.0	0.5	Anthracene	73.000	32.000	204000000.0	NA	ug/kg
Surf Sed	DB47-002	7/18/2005	0.0	0.5	Aroclor-1254	160.000	12.000	12400.0	NA	ug/kg
Surf Sed	DB47-002	7/18/2005	0.0	0.5	Arsenic	8.700	NA	22.2	7.240	mg/kg
Surf Sed	DB47-002	7/18/2005	0.0	0.5	Barium	200.000	NA	26400.0	188.170	mg/kg
Surf Sed	DB47-002	7/18/2005	0.0	0.5	Benzo(a)anthracene	240.000	38.000	34900.0	NA	ug/kg
Surf Sed	DB47-002	7/18/2005	0.0	0.5	Benzo(a)pyrene	290.000	38.000	3490.0	NA	ug/kg
Surf Sed	DB47-002	7/18/2005	0.0	0.5	Benzo(b)fluoranthene	270.000	100.000	34900.0	NA	ug/kg
Surf Sed	DB47-002	7/18/2005	0.0	0.5	Benzo(k)fluoranthene	270.000	75.000	349000.0	NA	ug/kg
Surf Sed	DB47-002	7/18/2005	0.0	0.5	bis(2-Ethylhexyl)phthalate	710.000	58.000	1970000.0	NA	ug/kg
Surf Sed	DB47-002	7/18/2005	0.0	0.5	Chrysene	330.000	51.000	3490000.0	NA	ug/kg
Surf Sed	DB47-002	7/18/2005	0.0	0.5	Copper	31.000	NA	40900.0	27.270	mg/kg
Surf Sed	DB47-002	7/18/2005	0.0	0.5	Dibenz(a,h)anthracene	65.000	36.000	3490.0	NA	ug/kg
Surf Sed	DB47-002	7/18/2005	0.0	0.5	Fluoranthene	580.000	68.000	27200000.0	NA	ug/kg
Surf Sed	DB47-002	7/18/2005	0.0	0.5	Indeno(1,2,3-cd)pyrene	150.000	41.000	34900.0	NA	ug/kg
Surf Sed	DB47-002	7/18/2005	0.0	0.5	Iron	23000.000	NA	307000.0	21379.010	mg/kg
Surf Sed	DB47-002	7/18/2005	0.0	0.5	Nickel	18.000	NA	20400.0	17.890	mg/kg
Surf Sed	DB47-002	7/18/2005	0.0	0.5	Pyrene	580.000	250.000	22100000.0	NA	ug/kg
Surf Sed	DB47-002	7/18/2005	0.0	0.5	Silver	3.100	NA	5110.0	2.280	mg/kg
Surf Sed	DB47-002	7/18/2005	0.0	0.5	Zinc	510.000	NA	307000.0	104.400	mg/kg
Sub Sed	DB47-002	7/18/2005	0.5	2.5	Aluminum	20000.000	NA	228000.0	15713.070	mg/kg
Sub Sed	DB47-002	7/18/2005	0.5	2.5	Americium-241	12.500	NA	76.0	0.270	pCi/g
Sub Sed	DB47-002	7/18/2005	0.5	2.5	Anthracene	75.000	28.000	204000000.0	NA	ug/kg
Sub Sed	DB47-002	7/18/2005	0.5	2.5	Aroclor-1254	220.000	11.000	12400.0	NA	ug/kg
Sub Sed	DB47-002	7/18/2005	0.5	2.5	Arsenic	7.400	NA	22.2	7.240	mg/kg
Sub Sed	DB47-002	7/18/2005	0.5	2.5	Barium	190.000	NA	26400.0	188.170	mg/kg
Sub Sed	DB47-002	7/18/2005	0.5	2.5	Benzo(a)anthracene	360.000	33.000	34900.0	NA	ug/kg
Sub Sed	DB47-002	7/18/2005	0.5	2.5	Benzo(a)pyrene	490.000	33.000	3490.0	NA	ug/kg
Sub Sed	DB47-002	7/18/2005	0.5	2.5	Benzo(b)fluoranthene	560.000	87.000	34900.0	NA	ug/kg
Sub Sed	DB47-002	7/18/2005	0.5	2.5	Benzo(k)fluoranthene	540.000	65.000	349000.0	NA	ug/kg
Sub Sed	DB47-002	7/18/2005	0.5	2.5	bis(2-Ethylhexyl)phthalate	6500.000	51.000	1970000.0	NA	ug/kg
Sub Sed	DB47-002	7/18/2005	0.5	2.5	Chromium	25.000	NA	268.0	23.230	mg/kg
Sub Sed	DB47-002	7/18/2005	0.5	2.5	Chrysene	610.000	44.000	3490000.0	NA	ug/kg
Sub Sed	DB47-002	7/18/2005	0.5	2.5	Copper	39.000	NA	40900.0	27.270	mg/kg
Sub Sed	DB47-002	7/18/2005	0.5	2.5	Dibenz(a,h)anthracene	110.000	31.000	3490.0	NA	ug/kg
Sub Sed	DB47-002	7/18/2005	0.5	2.5	Fluoranthene	1200.000	59.000	27200000.0	NA	ug/kg
Sub Sed	DB47-002	7/18/2005	0.5	2.5	Indeno(1,2,3-cd)pyrene	280.000	36.000	34900.0	NA	ug/kg
Sub Sed	DB47-002	7/18/2005	0.5	2.5	Nickel	18.000	NA	20400.0	17.890	mg/kg
Sub Sed	DB47-002	7/18/2005	0.5	2.5	Plutonium-239/240	47.100	NA	50.0	1.350	pCi/g
Sub Sed	DB47-002	7/18/2005	0.5	2.5	Pyrene	1000.000	210.000	22100000.0	NA	ug/kg
Sub Sed	DB47-002	7/18/2005	0.5	2.5	Silver	7.400	NA	5110.0	2.280	mg/kg
Sub Sed	DB47-002	7/18/2005	0.5	2.5	Zinc	240.000	NA	307000.0	104.400	mg/kg
Sub Sed	DB47-002	7/18/2005	2.5	4.5	Americium-241	17.000	NA	76.0	0.270	pCi/g
Sub Sed	DB47-002	7/18/2005	2.5	4.5	Aroclor-1254	3100.000	100.000	12400.0	NA	ug/kg
Sub Sed	DB47-002	7/18/2005	2.5	4.5	Arsenic	8.800	NA	22.2	7.240	mg/kg
Sub Sed	DB47-002	7/18/2005	2.5	4.5	Benzo(a)anthracene	98.000	32.000	34900.0	NA	ug/kg
Sub Sed	DB47-002	7/18/2005	2.5	4.5	Benzo(a)pyrene	150.000	32.000	3490.0	NA	ug/kg
Sub Sed	DB47-002	7/18/2005	2.5	4.5	Benzo(b)fluoranthene	180.000	84.000	34900.0	NA	ug/kg
Sub Sed	DB47-002	7/18/2005	2.5	4.5	Benzo(k)fluoranthene	200.000	63.000	349000.0	NA	ug/kg
Sub Sed	DB47-002	7/18/2005	2.5	4.5	bis(2-Ethylhexyl)phthalate	8000.000	98.000	1970000.0	NA	ug/kg
Sub Sed	DB47-002	7/18/2005	2.5	4.5	Chrysene	210.000	43.000	3490000.0	NA	ug/kg
Sub Sed	DB47-002	7/18/2005	2.5	4.5	Fluoranthene	450.000	57.000	27200000.0	NA	ug/kg
Sub Sed	DB47-002	7/18/2005	2.5	4.5	Indeno(1,2,3-cd)pyrene	84.000	35.000	34900.0	NA	ug/kg
Sub Sed	DB47-002	7/18/2005	2.5	4.5	Plutonium-239/240	32.800	NA	50.0	1.350	pCi/g
Sub Sed	DB47-002	7/18/2005	2.5	4.5	Pyrene	310.000	210.000	22100000.0	NA	ug/kg
Sub Sed	DB47-002	7/18/2005	2.5	4.5	Silver	7.400	NA	5110.0	2.280	mg/kg
Sub Sed	DB47-002	7/18/2005	2.5	4.5	Uranium-234	5.340	NA	300.0	3.980	pCi/g
Sub Sed	DB47-002	7/18/2005	2.5	4.5	Uranium-238	5.760	NA	351.0	3.460	pCi/g
Sub Sed	DB47-002	7/18/2005	4.5	6.5	Aluminum	18000.000	NA	228000.0	15713.070	mg/kg
Sub Sed	DB47-002	7/18/2005	4.5	6.5	Nickel	18.000	NA	20400.0	17.890	mg/kg
Sub Sed	DB47-002	7/18/2005	6.5	8.5	Aluminum	17000.000	NA	228000.0	15713.070	mg/kg
Sub Sed	DB47-002	7/18/2005	6.5	8.5	Barium	190.000	NA	26400.0	188.170	mg/kg
Sub Sed	DB47-002	7/18/2005	6.5	8.5	Nickel	18.000	NA	20400.0	17.890	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI	Wrw_al	Background	Unit
Sub Sed	SED63892	10/22/1992	0.0	2.0	Americium-241	0.485	NA	76.0	0.270	pCi/g
Sub Sed	SED63892	10/22/1992	0.0	2.0	Antimony	25.600	NA	409.0	13.010	mg/kg
Sub Sed	SED63892	10/22/1992	0.0	2.0	Arsenic	8.800	NA	22.2	7.240	mg/kg
Sub Sed	SED63892	10/22/1992	0.0	2.0	Barium	196.000	NA	26400.0	188.170	mg/kg
Sub Sed	SED63892	10/22/1992	0.0	2.0	Benzo(b)fluoranthene	660.000	660.000	34900.0	NA	ug/kg
Sub Sed	SED63892	10/22/1992	0.0	2.0	bis(2-Ethylhexyl)phthalate	2100.000	660.000	1970000.0	NA	ug/kg
Sub Sed	SED63892	10/22/1992	0.0	2.0	Cadmium	3.200	NA	962.0	1.880	mg/kg
Sub Sed	SED63892	10/22/1992	0.0	2.0	Copper	30.200	NA	40900.0	27.270	mg/kg
Sub Sed	SED63892	10/22/1992	0.0	2.0	Fluoranthene	950.000	660.000	27200000.0	NA	ug/kg
Sub Sed	SED63892	10/22/1992	0.0	2.0	Pyrene	820.000	660.000	22100000.0	NA	ug/kg
Sub Sed	SED63892	10/22/1992	0.0	2.0	Toluene	17.000	5.000	31300000.0	NA	ug/kg
Sub Sed	SED63892	10/22/1992	0.0	2.0	Zinc	303.000	NA	307000.0	104.400	mg/kg
Sub Sed	SED63892	10/22/1992	0.0	2.8	Americium-241	7.452	NA	76.0	0.270	pCi/g
Sub Sed	SED63892	10/22/1992	0.0	2.8	Aroclor-1254	1100.000	350.000	12400.0	NA	ug/kg
Sub Sed	SED63892	10/22/1992	0.0	2.8	Arsenic	7.300	NA	22.2	7.240	mg/kg
Sub Sed	SED63892	10/22/1992	0.0	2.8	Barium	190.000	NA	26400.0	188.170	mg/kg
Sub Sed	SED63892	10/22/1992	0.0	2.8	Benzo(b)fluoranthene	770.000	660.000	34900.0	NA	ug/kg
Sub Sed	SED63892	10/22/1992	0.0	2.8	Benzo(k)fluoranthene	360.000	330.000	349000.0	NA	ug/kg
Sub Sed	SED63892	10/22/1992	0.0	2.8	bis(2-Ethylhexyl)phthalate	5000.000	660.000	1970000.0	NA	ug/kg
Sub Sed	SED63892	10/22/1992	0.0	2.8	Cadmium	1.900	NA	962.0	1.880	mg/kg
Sub Sed	SED63892	10/22/1992	0.0	2.8	Chromium	26.100	NA	268.0	23.230	mg/kg
Sub Sed	SED63892	10/22/1992	0.0	2.8	Copper	38.400	NA	40900.0	27.270	mg/kg
Sub Sed	SED63892	10/22/1992	0.0	2.8	Fluoranthene	1100.000	660.000	27200000.0	NA	ug/kg
Sub Sed	SED63892	10/22/1992	0.0	2.8	Plutonium-239/240	24.090	NA	50.0	1.350	pCi/g
Sub Sed	SED63892	10/22/1992	0.0	2.8	Pyrene	1000.000	660.000	22100000.0	NA	ug/kg
Sub Sed	SED63892	10/22/1992	0.0	2.8	Silver	102.000	NA	5110.0	2.280	mg/kg
Sub Sed	SED63892	10/22/1992	0.0	2.8	Zinc	194.000	NA	307000.0	104.400	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI	Wrw_al	Background	Unit
Sub Sed	SED63592	10/22/1992	0.0	2.0	Americium-241	2.177	NA	76.0	0.270	pCi/g
Sub Sed	SED63592	10/22/1992	0.0	2.0	Antimony	24.700	NA	409.0	13.010	mg/kg
Sub Sed	SED63592	10/22/1992	0.0	2.0	Benzo(b)fluoranthene	660.000	660.000	34900.0	NA	ug/kg
Sub Sed	SED63592	10/22/1992	0.0	2.0	bis(2-Ethylhexyl)phthalate	980.000	660.000	1970000.0	NA	ug/kg
Sub Sed	SED63592	10/22/1992	0.0	2.0	Fluoranthene	1100.000	660.000	27200000.0	NA	ug/kg
Sub Sed	SED63592	10/22/1992	0.0	2.0	Plutonium-239/240	8.370	NA	50.0	1.350	pCi/g
Sub Sed	SED63592	10/22/1992	0.0	2.0	Pyrene	890.000	660.000	22100000.0	NA	ug/kg
Sub Sed	SED63592	10/22/1992	0.0	2.0	Toluene	18.000	5.000	31300000.0	NA	ug/kg
Sub Sed	SED63592	10/22/1992	0.0	2.0	Zinc	127.000	NA	307000.0	104.400	mg/kg
Sub Sed	SED63592	10/22/1992	0.0	3.2	Americium-241	3.457	NA	76.0	0.270	pCi/g
Sub Sed	SED63592	10/22/1992	0.0	3.2	Benzo(b)fluoranthene	740.000	660.000	34900.0	NA	ug/kg
Sub Sed	SED63592	10/22/1992	0.0	3.2	Benzo(k)fluoranthene	350.000	330.000	349000.0	NA	ug/kg
Sub Sed	SED63592	10/22/1992	0.0	3.2	bis(2-Ethylhexyl)phthalate	1100.000	660.000	1970000.0	NA	ug/kg
Sub Sed	SED63592	10/22/1992	0.0	3.2	Fluoranthene	1200.000	660.000	27200000.0	NA	ug/kg
Sub Sed	SED63592	10/22/1992	0.0	3.2	Plutonium-239/240	11.160	NA	50.0	1.350	pCi/g
Sub Sed	SED63592	10/22/1992	0.0	3.2	Pyrene	1000.000	660.000	22100000.0	NA	ug/kg
Sub Sed	SED63592	10/22/1992	0.0	3.2	Silver	2.700	NA	5110.0	2.280	mg/kg
Sub Sed	SED63592	10/22/1992	0.0	3.2	Zinc	135.000	NA	307000.0	104.400	mg/kg

KEY

- Sampling location
- Pond
- IHSS
- Stream

N, W, E, S

50 0 50 100 150 200 Feet

Scale 1:1,200

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared for: KAISER•HILL COMPANY

Prepared by: RADMS

File: W: Projects/Fy2005/Ponds/DSR/Agency_pondresults.apr   Date: October 2005

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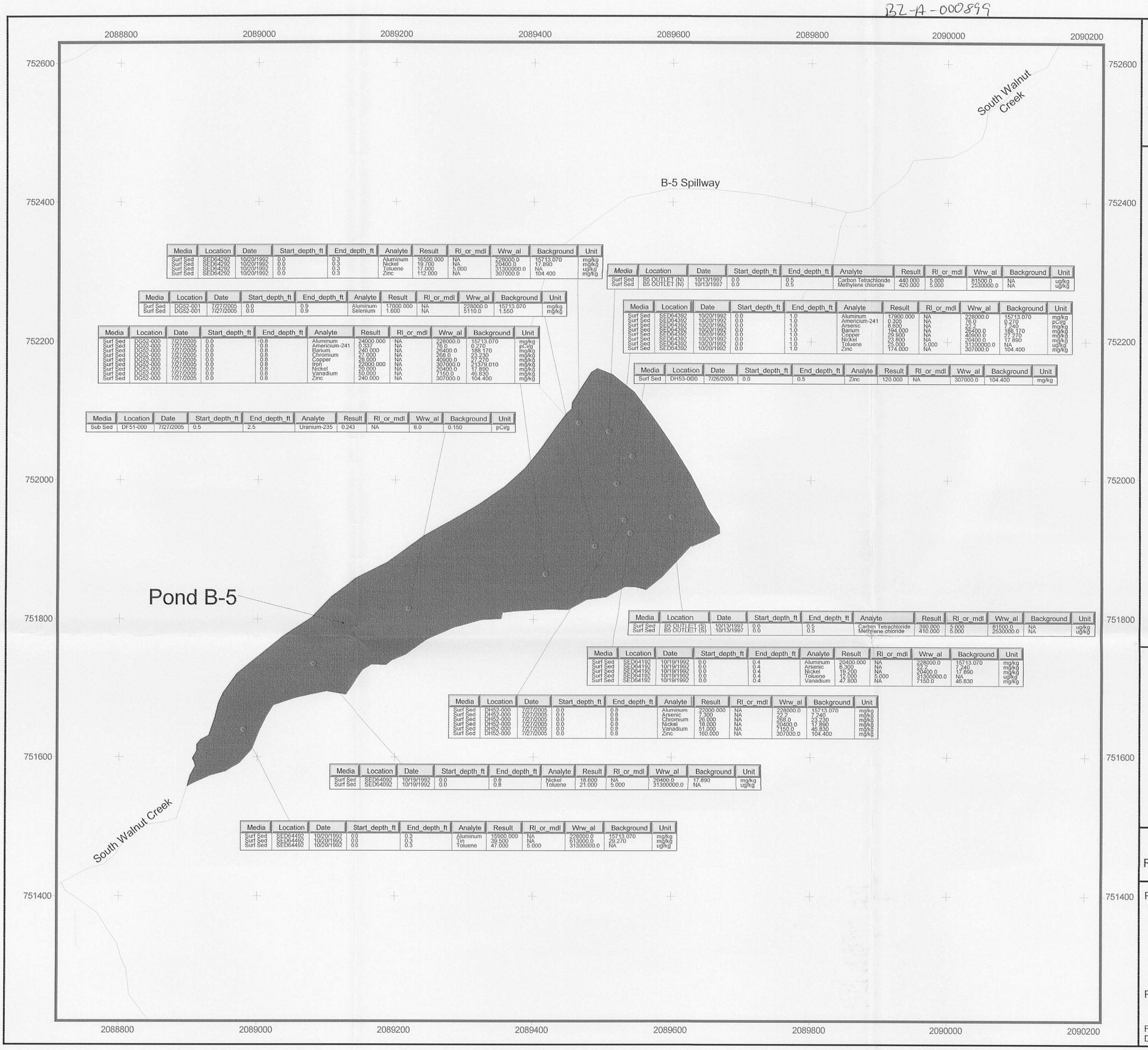
Figure 8
Pond B-5 Sample Locations And Results Greater Than Background Means Plus Two Standard Deviations or Reporting Limits



Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Sed	SED64292	10/20/1992	0.0	0.3	Aluminum	16500.000	NA	228000.0	15713.070	mg/kg
Surf Sed	SED64292	10/20/1992	0.0	0.3	Nickel	19.700	NA	20400.0	17.890	mg/kg
Surf Sed	SED64292	10/20/1992	0.0	0.3	Toluene	17.000	5.000	31300000.0	NA	ug/kg
Surf Sed	SED64292	10/20/1992	0.0	0.3	Zinc	112.000	NA	307000.0	104.400	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Sed	B5 OUTLET (N)	10/13/1997	0.0	0.5	Carbon Tetrachloride	440.000	5.000	81500.0	NA	ug/kg
Surf Sed	B5 OUTLET (N)	10/13/1997	0.0	0.5	Methylene chloride	420.000	5.000	2530000.0	NA	ug/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Sed	DG52-001	7/27/2005	0.0	0.9	Aluminum	17000.000	NA	228000.0	15713.070	mg/kg
Surf Sed	DG52-001	7/27/2005	0.0	0.9	Selenium	1.600	NA	5110.0	1.550	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Sed	SED64392	10/20/1992	0.0	1.0	Aluminum	17900.000	NA	228000.0	15713.070	mg/kg
Surf Sed	SED64392	10/20/1992	0.0	1.0	Americium-241	0.305	NA	76.0	0.270	pCi/g
Surf Sed	SED64392	10/20/1992	0.0	1.0	Arsenic	8.600	NA	22.2	7.240	mg/kg
Surf Sed	SED64392	10/20/1992	0.0	1.0	Barium	194.000	NA	26400.0	168.170	mg/kg
Surf Sed	SED64392	10/20/1992	0.0	1.0	Copper	29.800	NA	40900.0	27.270	mg/kg
Surf Sed	SED64392	10/20/1992	0.0	1.0	Nickel	23.800	NA	20400.0	17.890	mg/kg
Surf Sed	SED64392	10/20/1992	0.0	1.0	Toluene	25.000	5.000	31300000.0	NA	ug/kg
Surf Sed	SED64392	10/20/1992	0.0	1.0	Zinc	174.000	NA	307000.0	104.400	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Sed	DG52-000	7/27/2005	0.0	0.8	Aluminum	24000.000	NA	228000.0	15713.070	mg/kg
Surf Sed	DG52-000	7/27/2005	0.0	0.8	Americium-241	0.337	NA	76.0	0.270	pCi/g
Surf Sed	DG52-000	7/27/2005	0.0	0.8	Barium	240.000	NA	26400.0	168.170	mg/kg
Surf Sed	DG52-000	7/27/2005	0.0	0.8	Chromium	27.000	NA	268.0	23.230	mg/kg
Surf Sed	DG52-000	7/27/2005	0.0	0.8	Copper	28.000	NA	40900.0	27.270	mg/kg
Surf Sed	DG52-000	7/27/2005	0.0	0.8	Iron	22000.000	NA	307000.0	21379.010	mg/kg
Surf Sed	DG52-000	7/27/2005	0.0	0.8	Nickel	20.000	NA	20400.0	17.890	mg/kg
Surf Sed	DG52-000	7/27/2005	0.0	0.8	Vanadium	50.000	NA	7150.0	46.830	mg/kg
Surf Sed	DG52-000	7/27/2005	0.0	0.8	Zinc	240.000	NA	307000.0	104.400	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Sed	DH53-000	7/26/2005	0.0	0.5	Zinc	120.000	NA	307000.0	104.400	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Sub Sed	DF51-000	7/27/2005	0.5	2.5	Uranium-235	0.243	NA	8.0	0.150	pCi/g

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Sed	B5 OUTLET (S)	10/13/1997	0.0	0.5	Carbon Tetrachloride	390.000	5.000	81500.0	NA	ug/kg
Surf Sed	B5 OUTLET (S)	10/13/1997	0.0	0.5	Methylene chloride	410.000	5.000	2530000.0	NA	ug/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Sed	SED64192	10/19/1992	0.0	0.4	Aluminum	20400.000	NA	228000.0	15713.070	mg/kg
Surf Sed	SED64192	10/19/1992	0.0	0.4	Arsenic	8.300	NA	22.2	7.240	mg/kg
Surf Sed	SED64192	10/19/1992	0.0	0.4	Nickel	19.200	NA	20400.0	17.890	mg/kg
Surf Sed	SED64192	10/19/1992	0.0	0.4	Toluene	12.000	5.000	31300000.0	NA	ug/kg
Surf Sed	SED64192	10/19/1992	0.0	0.4	Vanadium	47.800	NA	7150.0	46.830	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Sed	DH52-000	7/27/2005	0.0	0.8	Aluminum	22000.000	NA	228000.0	15713.070	mg/kg
Surf Sed	DH52-000	7/27/2005	0.0	0.8	Arsenic	7.300	NA	22.2	7.240	mg/kg
Surf Sed	DH52-000	7/27/2005	0.0	0.8	Chromium	26.000	NA	268.0	23.230	mg/kg
Surf Sed	DH52-000	7/27/2005	0.0	0.8	Nickel	18.000	NA	20400.0	17.890	mg/kg
Surf Sed	DH52-000	7/27/2005	0.0	0.8	Vanadium	51.000	NA	7150.0	46.830	mg/kg
Surf Sed	DH52-000	7/27/2005	0.0	0.8	Zinc	160.000	NA	307000.0	104.400	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Sed	SED64092	10/19/1992	0.0	0.8	Nickel	18.600	NA	20400.0	17.890	mg/kg
Surf Sed	SED64092	10/19/1992	0.0	0.8	Toluene	21.000	5.000	31300000.0	NA	ug/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Sed	SED64492	10/20/1992	0.0	0.3	Aluminum	15900.000	NA	228000.0	15713.070	mg/kg
Surf Sed	SED64492	10/20/1992	0.0	0.3	Tin	39.500	NA	613000.0	29.270	mg/kg
Surf Sed	SED64492	10/20/1992	0.0	0.3	Toluene	47.000	5.000	31300000.0	NA	ug/kg

KEY

- Sampling location
- Pond
- IHSS
- Stream

N
W E
S

50 0 50 100 150 200 Feet

Scale 1:1,200

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared for: KAISER-HILL COMPANY

Prepared by: RADMS

File: W: Projects/Fy2005/Ponds/DSR/Agency_pondresults.apr Date: October 2005

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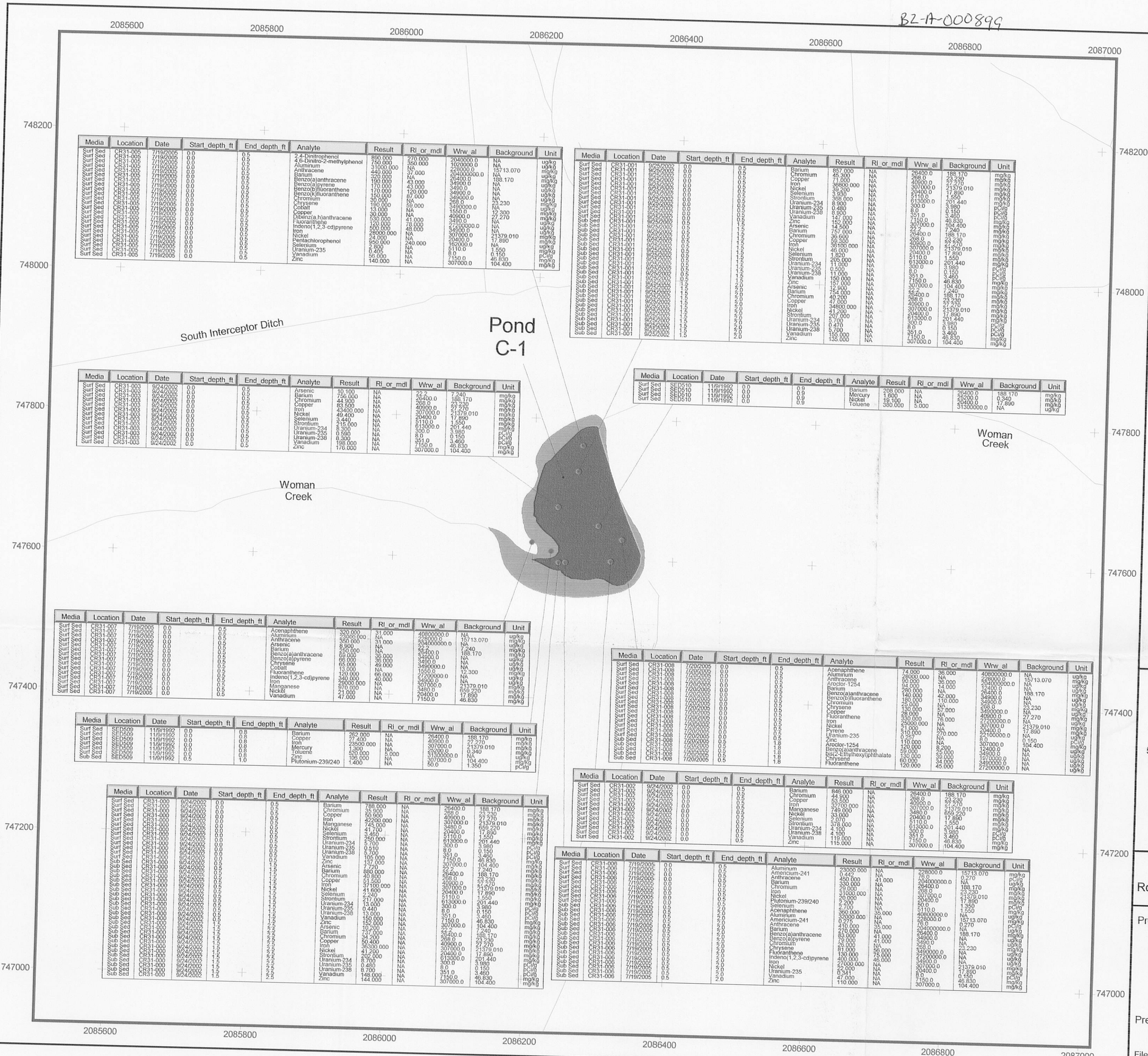
Figure 9
Pond C-1 Sample Locations And Results Greater Than Background Means Plus Two Standard Deviations or Reporting Limits



Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Sed	CR31-005	7/19/2005	0.0	0.5	2,4-Dinitrophenol	890.000	270.000	2040000.0	NA	ug/kg
Surf Sed	CR31-005	7/19/2005	0.0	0.5	4,6-Dinitro-2-methylphenol	750.000	350.000	1020000.0	NA	ug/kg
Surf Sed	CR31-005	7/19/2005	0.0	0.5	Aluminum	31000.000	NA	228000.0	15713.070	mg/kg
Surf Sed	CR31-005	7/19/2005	0.0	0.5	Anthracene	440.000	37.000	20400000.0	NA	ug/kg
Surf Sed	CR31-005	7/19/2005	0.0	0.5	Barium	320.000	NA	26400.0	188.170	mg/kg
Surf Sed	CR31-005	7/19/2005	0.0	0.5	Benzo(a)anthracene	190.000	43.000	34900.0	NA	ug/kg
Surf Sed	CR31-005	7/19/2005	0.0	0.5	Benzo(a)pyrene	170.000	43.000	34900.0	NA	ug/kg
Surf Sed	CR31-005	7/19/2005	0.0	0.5	Benzo(b)fluoranthene	170.000	120.000	34900.0	NA	ug/kg
Surf Sed	CR31-005	7/19/2005	0.0	0.5	Benzo(k)fluoranthene	150.000	87.000	348000.0	NA	ug/kg
Surf Sed	CR31-005	7/19/2005	0.0	0.5	Chromium	30.000	NA	268.0	23.230	mg/kg
Surf Sed	CR31-005	7/19/2005	0.0	0.5	Chrysene	190.000	59.000	3490000.0	NA	ug/kg
Surf Sed	CR31-005	7/19/2005	0.0	0.5	Cobalt	13.000	NA	1550.0	12.300	mg/kg
Surf Sed	CR31-005	7/19/2005	0.0	0.5	Copper	59.000	NA	40900.0	27.270	mg/kg
Surf Sed	CR31-005	7/19/2005	0.0	0.5	Dibenz(a,h)anthracene	530.000	41.000	3490.0	NA	ug/kg
Surf Sed	CR31-005	7/19/2005	0.0	0.5	Fluoranthene	120.000	78.000	27200000.0	NA	ug/kg
Surf Sed	CR31-005	7/19/2005	0.0	0.5	Indeno(1,2,3-cd)pyrene	500.000	48.000	34900.0	NA	ug/kg
Surf Sed	CR31-005	7/19/2005	0.0	0.5	Iron	28000.000	NA	307000.0	21379.010	mg/kg
Surf Sed	CR31-005	7/19/2005	0.0	0.5	Nickel	24.000	NA	20400.0	17.890	mg/kg
Surf Sed	CR31-005	7/19/2005	0.0	0.5	Pentachlorophenol	950.000	240.000	162000.0	NA	ug/kg
Surf Sed	CR31-005	7/19/2005	0.0	0.5	Selenium	2.800	NA	5110.0	1.550	mg/kg
Surf Sed	CR31-005	7/19/2005	0.0	0.5	Uranium-235	6.400	NA	8.0	0.150	pCi/g
Surf Sed	CR31-005	7/19/2005	0.0	0.5	Vanadium	56.000	NA	7150.0	46.830	mg/kg
Surf Sed	CR31-005	7/19/2005	0.0	0.5	Zinc	140.000	NA	307000.0	104.400	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Sed	CR31-001	9/25/2002	0.0	0.5	Barium	857.000	NA	26400.0	188.170	mg/kg
Surf Sed	CR31-001	9/25/2002	0.0	0.5	Chromium	45.300	NA	268.0	23.230	mg/kg
Surf Sed	CR31-001	9/25/2002	0.0	0.5	Copper	71.000	NA	40900.0	27.270	mg/kg
Surf Sed	CR31-001	9/25/2002	0.0	0.5	Iron	36800.000	NA	307000.0	21379.010	mg/kg
Surf Sed	CR31-001	9/25/2002	0.0	0.5	Nickel	30.200	NA	20400.0	17.890	mg/kg
Surf Sed	CR31-001	9/25/2002	0.0	0.5	Selenium	3.930	NA	5110.0	1.550	mg/kg
Surf Sed	CR31-001	9/25/2002	0.0	0.5	Strontium	368.000	NA	613000.0	201.440	mg/kg
Surf Sed	CR31-001	9/25/2002	0.0	0.5	Uranium-234	8.900	NA	300.0	3.980	pCi/g
Surf Sed	CR31-001	9/25/2002	0.0	0.5	Uranium-235	0.480	NA	8.0	0.150	pCi/g
Surf Sed	CR31-001	9/25/2002	0.0	0.5	Uranium-238	8.950	NA	351.0	3.460	pCi/g
Sub Sed	CR31-001	9/25/2002	0.5	1.5	Vanadium	147.000	NA	7150.0	46.830	mg/kg
Sub Sed	CR31-001	9/25/2002	0.5	1.5	Zinc	152.000	NA	307000.0	104.400	mg/kg
Sub Sed	CR31-001	9/25/2002	0.5	1.5	Arsenic	14.500	NA	22.2	7.240	mg/kg
Sub Sed	CR31-001	9/25/2002	0.5	1.5	Barium	757.000	NA	26400.0	188.170	mg/kg
Sub Sed	CR31-001	9/25/2002	0.5	1.5	Chromium	36.600	NA	268.0	23.230	mg/kg
Sub Sed	CR31-001	9/25/2002	0.5	1.5	Copper	59.300	NA	40900.0	27.270	mg/kg
Sub Sed	CR31-001	9/25/2002	0.5	1.5	Iron	36100.000	NA	307000.0	21379.010	mg/kg
Sub Sed	CR31-001	9/25/2002	0.5	1.5	Nickel	46.000	NA	20400.0	17.890	mg/kg
Sub Sed	CR31-001	9/25/2002	0.5	1.5	Selenium	1.820	NA	5110.0	1.550	mg/kg
Sub Sed	CR31-001	9/25/2002	0.5	1.5	Strontium	205.000	NA	613000.0	201.440	mg/kg
Sub Sed	CR31-001	9/25/2002	0.5	1.5	Uranium-234	11.000	NA	300.0	3.980	pCi/g
Sub Sed	CR31-001	9/25/2002	0.5	1.5	Uranium-235	0.500	NA	8.0	0.150	pCi/g
Sub Sed	CR31-001	9/25/2002	0.5	1.5	Uranium-238	11.000	NA	351.0	3.460	pCi/g
Sub Sed	CR31-001	9/25/2002	0.5	1.5	Vanadium	150.000	NA	7150.0	46.830	mg/kg
Sub Sed	CR31-001	9/25/2002	0.5	1.5	Zinc	157.000	NA	307000.0	104.400	mg/kg
Sub Sed	CR31-001	9/25/2002	1.5	2.0	Arsenic	12.900	NA	22.2	7.240	mg/kg
Sub Sed	CR31-001	9/25/2002	1.5	2.0	Barium	754.000	NA	26400.0	188.170	mg/kg
Sub Sed	CR31-001	9/25/2002	1.5	2.0	Chromium	40.200	NA	268.0	23.230	mg/kg
Sub Sed	CR31-001	9/25/2002	1.5	2.0	Copper	47.000	NA	40900.0	27.270	mg/kg
Sub Sed	CR31-001	9/25/2002	1.5	2.0	Iron	34800.000	NA	307000.0	21379.010	mg/kg
Sub Sed	CR31-001	9/25/2002	1.5	2.0	Nickel	41.200	NA	20400.0	17.890	mg/kg
Sub Sed	CR31-001	9/25/2002	1.5	2.0	Strontium	207.000	NA	613000.0	201.440	mg/kg
Sub Sed	CR31-001	9/25/2002	1.5	2.0	Uranium-234	5.700	NA	300.0	3.980	pCi/g
Sub Sed	CR31-001	9/25/2002	1.5	2.0	Uranium-235	0.470	NA	8.0	0.150	pCi/g
Sub Sed	CR31-001	9/25/2002	1.5	2.0	Uranium-238	5.700	NA	351.0	3.460	pCi/g
Sub Sed	CR31-001	9/25/2002	1.5	2.0	Vanadium	155.000	NA	7150.0	46.830	mg/kg
Sub Sed	CR31-001	9/25/2002	1.5	2.0	Zinc	135.000	NA	307000.0	104.400	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Sed	CR31-003	9/24/2002	0.0	0.5	Arsenic	10.100	NA	22.2	7.240	mg/kg
Surf Sed	CR31-003	9/24/2002	0.0	0.5	Barium	796.000	NA	26400.0	188.170	mg/kg
Surf Sed	CR31-003	9/24/2002	0.0	0.5	Chromium	44.900	NA	268.0	23.230	mg/kg
Surf Sed	CR31-003	9/24/2002	0.0	0.5	Copper	83.500	NA	40900.0	27.270	mg/kg
Surf Sed	CR31-003	9/24/2002	0.0	0.5	Iron	43400.000	NA	307000.0	21379.010	mg/kg
Surf Sed	CR31-003	9/24/2002	0.0	0.5	Nickel	49.400	NA	20400.0	17.890	mg/kg
Surf Sed	CR31-003	9/24/2002	0.0	0.5	Selenium	3.440	NA	5110.0	1.550	mg/kg
Surf Sed	CR31-003	9/24/2002	0.0	0.5	Strontium	215.000	NA	613000.0	201.440	mg/kg
Surf Sed	CR31-003	9/24/2002	0.0	0.5	Uranium-234	8.300	NA	300.0	3.980	pCi/g
Surf Sed	CR31-003	9/24/2002	0.0	0.5	Uranium-235	0.590	NA	8.0	0.150	pCi/g
Surf Sed	CR31-003	9/24/2002	0.0	0.5	Uranium-238	8.300	NA	351.0	3.460	pCi/g
Surf Sed	CR31-003	9/24/2002	0.0	0.5	Vanadium	198.000	NA	7150.0	46.830	mg/kg
Surf Sed	CR31-003	9/24/2002	0.0	0.5	Zinc	176.000	NA	307000.0	104.400	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Sed	SED510	11/9/1992	0.0	0.9	Barium	208.000	NA	26400.0	188.170	mg/kg
Surf Sed	SED510	11/9/1992	0.0	0.9	Mercury	1.600	NA	352900.0	0.340	mg/kg
Surf Sed	SED510	11/9/1992	0.0	0.9	Nickel	19.100	NA	20400.0	17.890	mg/kg
Surf Sed	SED510	11/9/1992	0.0	0.9	Toluene	380.000	5.000	31300000.0	NA	ug/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Sed	CR31-007	7/19/2005	0.0	0.5	Acenaphthene	320.000	31.000	40800000.0	NA	ug/kg
Surf Sed	CR31-007	7/19/2005	0.0	0.5	Aluminum	23000.000	NA	228000.0	15713.070	mg/kg
Surf Sed	CR31-007	7/19/2005	0.0	0.5	Anthracene	350.000	31.000	20400000.0	NA	ug/kg
Surf Sed	CR31-007	7/19/2005	0.0	0.5	Arsenic	8.900	NA	22.2	7.240	mg/kg
Surf Sed	CR31-007	7/19/2005	0.0	0.5	Barium	262.000	NA	26400.0	188.170	mg/kg
Surf Sed	CR31-007	7/19/2005	0.0	0.5	Benzo(a)anthracene	59.000	39.000	34900.0	NA	ug/kg
Surf Sed	CR31-007	7/19/2005	0.0	0.5	Benzo(a)pyrene	66.000	36.000	3490.0	NA	ug/kg
Surf Sed	CR31-007	7/19/2005	0.0	0.5	Chrysene	65.000	49.000	3490000.0	NA	ug/kg
Surf Sed	CR31-007	7/19/2005	0.0	0.5	Cobalt	13.000	NA	1550.0	12.300	mg/kg
Surf Sed	CR31-007	7/19/2005	0.0	0.5	Fluoranthene	130.000	66.000	27200000.0	NA	ug/kg
Surf Sed	CR31-007	7/19/2005	0.0	0.5	Indeno(1,2,3-cd)pyrene	340.000	45.000	34900.0	NA	ug/kg
Surf Sed	CR31-007	7/19/2005	0.0	0.5	Iron	29000.000	NA	307000.0	21379.010	mg/kg
Surf Sed	CR31-007	7/19/2005	0.0	0.5	Manganese	970.000	NA	3480.0	659.220	mg/kg
Surf Sed	CR31-007	7/19/2005	0.0	0.5	Nickel	21.000	NA	20400.0	17.890	mg/kg
Surf Sed	CR31-007	7/19/2005	0.0	0.5	Vanadium	47.000	NA	7150.0	46.830	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Sed	CR31-008	7/20/2005	0.0	0.5	Acenaphthene	74.000	36.000	40800000.0	NA	ug/kg
Surf Sed	CR31-008	7/20/2005	0.0	0.5	Aluminum	28000.000	NA	228000.0	15713.070	mg/kg
Surf Sed	CR31-008	7/20/2005	0.0	0.5	Anthracene	80.000	36.000	20400000.0	NA	ug/kg
Surf Sed	CR31-008	7/20/2005	0.0	0.5	Aroclor-1254	94.000	14.000	12400.0	NA	ug/kg
Surf Sed	CR31-008	7/20/2005	0.0	0.5	Barium	280.000	NA	26400.0	188.170	mg/kg
Surf Sed	CR31-008	7/20/2005	0.0	0.5	Benzo(a)anthracene	140.000	42.000	34900.0	NA	ug/kg
Surf Sed	CR31-008	7/20/2005	0.0	0.5	Benzo(b)fluoranthene	180.000	110.000	34900.0	NA	ug/kg
Surf Sed	CR31-008	7/20/2005	0.0	0.5	Chromium	25.000	NA	268.0	23.230	mg/kg
Surf Sed	CR31-008	7/20/2005	0.0	0.5	Chrysene	130.000	57.000	3490000.0	NA	ug/kg
Surf Sed	CR31-008	7/20/2005	0.0	0.5	Copper	28.000	NA	40900.0	27.270	mg/kg
Surf Sed	CR31-008	7/20/2005	0.0	0.5	Fluoranthene	330.000	76.000	27200000.0	NA	ug/kg
Surf Sed	CR31-008	7/20/2005	0.0	0.5	Iron	25000.000	NA	307000.0	21379.010	mg/kg
Surf Sed	CR31-008	7/20/2005	0.0	0.5	Nickel	51.000	NA	20400.0	17.890	mg/kg
Surf Sed	CR31-008	7/20/2005	0.0	0.5	Pyrene	310.000	270.000	22100000.0	NA	ug/kg
Sub Sed	CR31-008	7/20/2005	0.0	0.5	Uranium-235	0.257	NA	8.0	0.150	pCi/g
Sub Sed	CR31-008	7/20/2005	0.5	1.8	Zinc	110.000	NA	307000.0	104.400	mg/kg
Sub Sed	CR31-008	7/20/2005	0.5	1.8	Aroclor-1254	120.000	9.200	12400.0	NA	ug/kg
Sub Sed	CR31-008	7/20/2005	0.5	1.8	Benzo(a)anthracene	68.000	25.000	34900.0	NA	ug/kg
Sub Sed	CR31-008	7/20/2005	0.5	1.8	bis(2-Ethylhexyl)phthalate	130.000	39.000	1070000.0	NA	ug/kg
Sub Sed	CR31-008	7/20/2005	0.5	1.8	Chrysene	60.000	34.000	3490000.0	NA	ug/kg
Sub Sed	CR31-008	7/20/2005	0.5	1.8	Fluoranthene	120.000	45.000	27200000.0	NA	ug/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Sed	SED509	11/9/1992	0.0	0.8	Barium	262.000	NA	26400.0	188.170	mg/kg
Surf Sed	SED509	11/9/1992	0.0	0.8	Copper	27.400	NA	40900.0	27.270	mg/kg
Surf Sed	SED509	11/9/1992	0.0	0.8	Iron	23500.000	NA	307000.0	21379.010	mg/kg
Surf Sed	SED509	11/9/1992	0.0	0.8	Mercury	1.300	NA	352900.0	0.340	mg/kg
Surf Sed	SED509	11/9/1992	0.0	0.6	Toluene	520.000	5.000	31300000.0	NA	ug/kg
Sub Sed	SED509	11/9/1992	0.5	1.0	Zinc	105.000	NA	307000.0	50.0	mg/kg
					Plutonium-239/240	1.400	NA		1.350	pCi/g

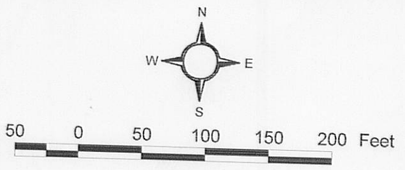
Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Sed	CR31-002	9/24/2002	0.0	0.5	Barium	846.000	NA	26400.0	188.170	mg/kg
Surf Sed	CR31-002	9/24/2002	0.0	0.5	Chromium	44.900	NA	268.0	23.230	mg/kg
Surf Sed	CR31-002	9/24/2002	0.0	0.5	Copper	53.500	NA	40900.0	27.270	mg/kg
Surf Sed	CR31-002	9/24/2002	0.0	0.5	Iron	32700.000	NA	307000.0	21379.010	mg/kg
Surf Sed	CR31-002	9/24/2002	0.0	0.5	Manganese	749.000	NA	3480.0	659.220	mg/kg
Surf Sed	CR31-002	9/24/2002	0.0	0.5	Nickel	33.000	NA	20400.0	17.890	mg/kg
Surf Sed	CR31-002	9/24/2002	0.0	0.5	Selenium	2.070	NA	5110.0	1.550	mg/kg
Surf Sed	CR31-002	9/24/2002	0.0	0.5	Strontium	378.000	NA	613000.0	201.440	mg/kg
Surf Sed	CR31-002	9/24/2002	0.0	0.5	Uranium-234	4.100	NA	300.0	3.980	mg/kg
Surf Sed	CR31-002	9/24/2002	0.0	0.5	Uranium-238	4.100	NA	351.0	3.460	pCi/g
Surf Sed	CR31-002	9/24/2002	0.0	0.5	Vanadium	119.000	NA	7150.0	46.830	pCi/g
					Zinc	115.000	NA	307000.0	104.400	mg/kg
										mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Sed	CR31-000	9/24/2002	0.0	0.5	Barium	788.000	NA	26400.0	188.170	mg/kg
Surf Sed	CR31-000	9/24/2002	0.0	0.5	Chromium	35.500	NA	268.0	23.230	mg/kg
Surf Sed	CR31-000	9/24/2002	0.0	0.5	Copper	50.900	NA	40900.0	27.270	mg/kg
Surf Sed	CR31-000	9/24/2002	0.0	0.5	Iron	42200.000	NA	307000.0	21379.010	mg/kg
Surf Sed	CR31-000	9/24/2002	0.0	0.5	Manganese	745.000	NA	3480.0	659.220	mg/kg
Surf Sed	CR31-000	9/24/2002	0.0	0.5	Nickel	41.700	NA	20400.0	17.890	mg/kg
Surf Sed	CR31-000	9/24/2002	0.0	0.5	Selenium	3.450	NA	5110.0	1.550	mg/kg
Surf Sed	CR31-000	9/24/2002	0.0	0.5	Strontium	250.000	NA	613000.0	201.440	mg/kg
Surf Sed	CR31-000	9/24/2002	0.0	0.5	Uranium-234	5.750	NA	300.0	3.980	pCi/g
Surf Sed	CR31-000	9/24/2002	0.0	0.5	Uranium-235	0.510	NA	8.0	0.150	pCi/g
Surf Sed	CR31-000	9/24/2002	0.0	0.5	Uranium-238	5.700	NA	351.0	3.460	pCi/g
Surf Sed	CR31-000	9/24/2002	0.0	0.5	Vanadium	105.000	NA	7150.0	46.830	mg/kg
Surf Sed	CR31-000	9/24/2002	0.0	0.5	Zinc	137.000	NA	307000.0	104.400	mg/kg
Sub Sed	CR31-000	9/24/2002	0.5	1.5	Arsenic	7.720	NA	22.2	7.240	mg/kg
Sub Sed	CR31-000	9/24/2002	0.5	1.5	Barium	880.000	NA	26400.0	188.170	mg/kg
Sub Sed	CR31-000	9/24/2002	0.5	1.5	Chromium	40.800	NA	268.0	23.230	mg/kg
Sub Sed	CR31-000	9/24/2002	0.5	1.5	Copper	51.500	NA	40900.0	27.270	mg/kg
Sub Sed	CR31-000	9/24/2002	0.5	1.5	Iron	37100.000	NA	307000.0	21379.010	mg/kg
Sub Sed	CR31-000	9/24/2002	0.5	1.5	Nickel	41.600	NA	20400.0	17.890	mg/kg
Sub Sed	CR31-000	9/24/2002	0.5	1.5	Selenium	2.240	NA	5110.0	1.550	mg/kg
Sub Sed	CR31-000	9/24/2002	0.5	1.5	Strontium	217.000	NA	613000.0	201.440	mg/kg
Sub Sed	CR31-000	9/24/2002	0.5	1.5	Uranium-234	13.000	NA	300.0	3.980	pCi/g
Sub Sed	CR31-000	9/24/2002	0.5	1.5	Uranium-235	0.440	NA	8.0	0.150	pCi/g
Sub Sed	CR31-000	9/24/2002	0.5	1.5	Uranium-238	13.000	NA	351.0	3.460	pCi/g
Sub Sed	CR31-000	9/24/2002	0.5	1.5	Vanadium	150.000	NA	7150.0	46.830	mg/kg
Sub Sed	CR31-000	9/24/2002	1.5	2.5	Zinc	152.000	NA	307000.0	104.400	mg/kg
Sub Sed	CR31-000	9/24/2002	1.5	2.5	Arsenic	10.200	NA	22.2	7.240	mg/kg
Sub Sed	CR31-000	9/24/2002	1.5	2.5	Barium	737.000	NA	26400.0	188.170	mg/kg
Sub Sed	CR31-000	9/24/2002	1.5	2.5	Chromium	34.200	NA	268.0	23.230	mg/kg
Sub Sed	CR31-000	9/24/2002	1.5	2.5	Copper	50.400	NA	40900.0	27.270	mg/kg
Sub Sed	CR31-000	9/24/2002	1.5	2.5	Iron	36300.000	NA	307000.0	21379.010	mg/kg
Sub Sed	CR31-000	9/24/2002	1.5	2.5	Nickel	41.200	NA	20400.0	17.890	mg/kg
Sub Sed	CR31-000	9/24/2002	1.5	2.5	Strontium	202.000	NA	613000.0	201.440	mg/kg
Sub Sed	CR31-000	9/24/2002	1.5	2.5	Uranium-234	8.700	NA	300.0	3.980	pCi/g
Sub Sed	CR31-000	9/24/2002	1.5	2.5	Uranium-235	0.480	NA	8.0	0.150	pCi/g
Sub Sed	CR31-000	9/24/2002	1.5	2.5	Uranium-238	8.700	NA	351.0	3.460	pCi/g
Sub Sed	CR31-000	9/24/2002	1.5	2.5	Vanadium	148.000	NA	7150.0	46.830	mg/kg
					Zinc	144.000	NA	307000.0	104.400	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	RI_or_mdl	Wrw_al	Background	Unit
Surf Sed	CR31-006	7/19/2005	0.0	0.5	Aluminum	23000.000	NA	228000.0	15713.070	mg/kg
Surf Sed	CR31-006	7/19/2005	0.0	0.5	Americium-241	0.442	NA	76.0	0.270	pCi/g
Surf Sed	CR31-006	7/19/2005	0.0	0.5	Anthracene	450.000	41.000	20400000.0	NA	ug/kg
Surf Sed	CR31-006	7/19/2005	0.0	0.5	Barium	330.000	NA	26400.0	188.170	mg/kg
Surf Sed	CR31-006	7/19/2005	0.0	0.5	Chromium	29.000	NA	268.0	23.230	mg/kg
Surf Sed	CR31-006	7/19/2005	0.0	0.5	Iron	31000.000	NA	307000.0	21379.010	mg/kg
Surf Sed	CR31-006	7/19/2005	0.0	0.5	Nickel	24.000	NA	20400.0	17.890	mg/kg
Surf Sed	CR31-006	7/19/2005	0.0	0.5	Plutonium-239/240	2.200	NA	50.0	1.350	pCi/g
Sub Sed	CR31-006	7/19/2005	0.5	2.0	Selenium	2.700	NA	5110.0	1.550	mg/kg
Sub Sed	CR31-006	7/19/2005	0.5	2.0	Acenaphthene	360.000	35.000	40800000.0	NA	ug/kg
Sub Sed	CR31-006	7/19/2005	0.5	2.0	Aluminum	32000.000	NA	228000.0	15713.070	mg/kg
Sub Sed	CR31-006	7/19/2005	0.5	2.0	Americium-241	0.275	NA	76.0	0.270	pCi/g
Sub Sed	CR31-006	7/19/2005	0.5	2.0	Anthracene	410.000	35.000	20400000.0	NA	ug/kg
Sub Sed	CR31-006	7/19/2005	0.5	2.0	Barium	270.000	NA	26400.0	188.170	mg/kg
Sub Sed	CR31-006	7/19/2005	0.5	2.0	Benzo(a)anthracene	83.000	41.000	34900.0	NA	ug/kg
Sub Sed	CR31-006	7/19/2005	0.5	2.0	Benzo(a)pyrene	78.000	41.000	3490.0	NA	ug/kg
Sub Sed	CR31-006	7/19/2005	0.5	2.0	Chromium	26.000	NA	268.0	23.230	mg/kg
Sub Sed	CR31-006	7/19/2005	0.5	2.0	Chrysene	81.000	56.000	3490000.0	NA	ug/kg
Sub Sed	CR31-006	7/19/2005	0.5	2.0	Fluoranthene	130.000	75.000	27200000.0	NA	ug/kg
Sub Sed	CR31-006	7/19/2005	0.5	2.0	Indeno(1,2,3-cd)pyrene	480.000	45.000	34900.0	NA	ug/kg
Sub Sed	CR31-006	7/19/2005	0.5	2.0	Iron	27000.000	NA	307000.0	21379.010	mg/kg
Sub Sed	CR31-006	7/19/2005	0.5	2.0	Nickel	22.000	NA	20400.0	17.890	mg/kg
Sub Sed	CR31-006	7/19/2005	0.5	2.0	Uranium-235	0.341	NA	8.0	0.150	pCi/g
Sub Sed	CR31-006	7/19/2005	0.5	2.0	Vanadium	47.000	NA	7150.0	46.830	mg/kg
					Zinc	110.000	NA	307000.0	104.400	mg/kg

KEY

- Sampling location
- Pond
- IHSS
- Stream



Scale 1:1,200

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared for: KAISER-HILL COMPANY

Prepared by: RADMS

File: W: Projects/Fy2005/Ponds/DSR/Agency_pondresults.apr

Date: October 2005

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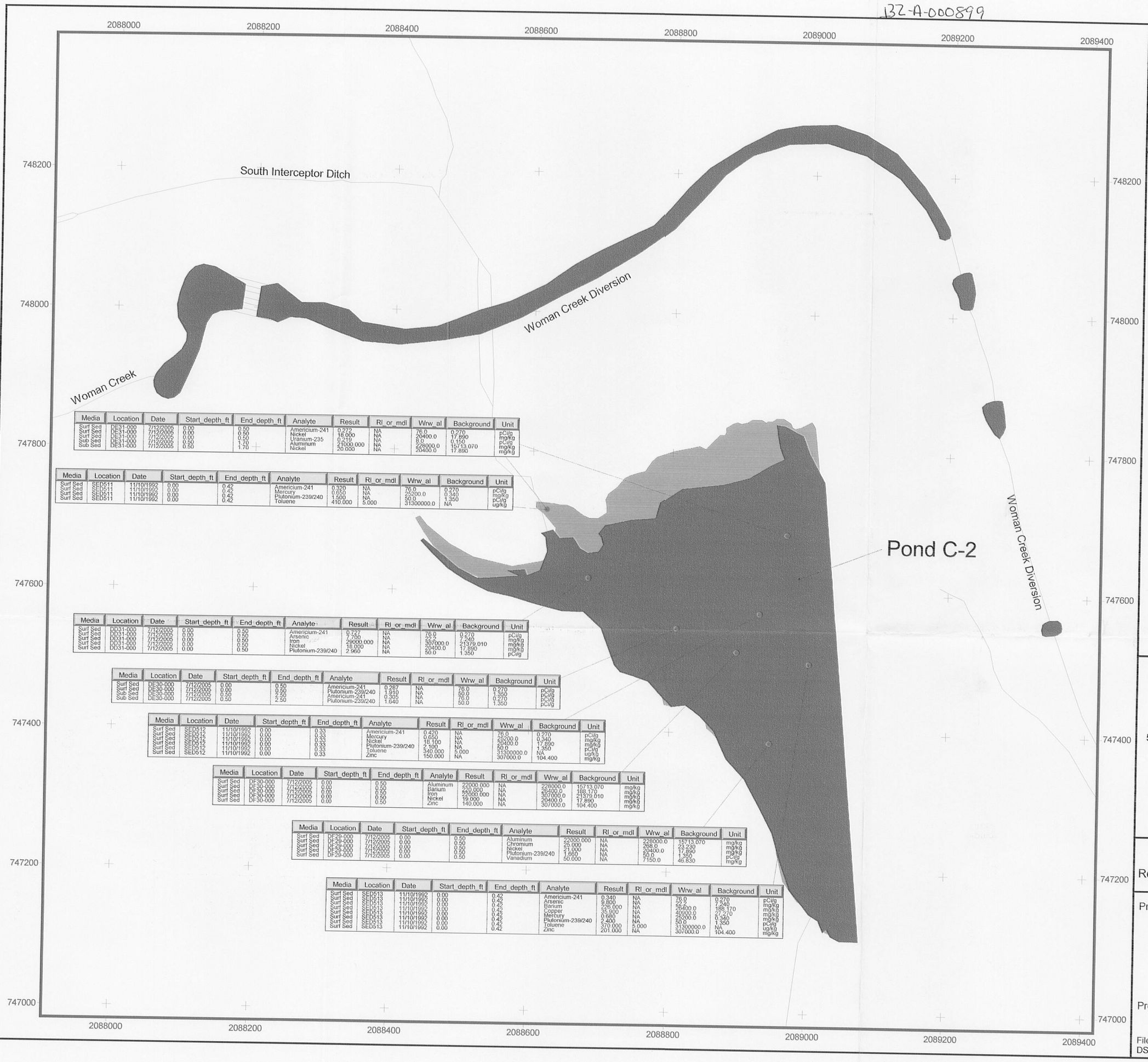
Figure 10
Pond C-2 Sample Locations And Results Greater Than Background Means Plus Two Standard Deviations or Reporting Limits



Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Surf Sed	DE31-000	7/12/2005	0.00	0.50	Americium-241	0.272	NA	76.0	0.270	pCi/g
Surf Sed	DE31-000	7/12/2005	0.00	0.50	Nickel	18.000	NA	20400.0	17.890	mg/kg
Surf Sed	DE31-000	7/12/2005	0.00	0.50	Uranium-235	0.219	NA	8.0	0.150	pCi/g
Sub Sed	DE31-000	7/12/2005	0.50	1.70	Aluminum	21000.000	NA	228000.0	15713.070	mg/kg
Sub Sed	DE31-000	7/12/2005	0.50	1.70	Nickel	20.000	NA	20400.0	17.890	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Surf Sed	SED511	11/10/1992	0.00	0.42	Americium-241	0.320	NA	76.0	0.270	pCi/g
Surf Sed	SED511	11/10/1992	0.00	0.42	Mercury	0.650	NA	22.2	0.540	mg/kg
Surf Sed	SED511	11/10/1992	0.00	0.42	Plutonium-239/240	1.500	NA	50.0	1.350	pCi/g
Surf Sed	SED511	11/10/1992	0.00	0.42	Toluene	410.000	5.000	31300000.0	NA	ug/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Surf Sed	DD31-000	7/12/2005	0.00	0.50	Americium-241	0.272	NA	76.0	0.270	pCi/g
Surf Sed	DD31-000	7/12/2005	0.00	0.50	Arsenic	7.700	NA	22.2	7.240	mg/kg
Surf Sed	DD31-000	7/12/2005	0.00	0.50	Iron	29000.000	NA	307000.0	21379.010	mg/kg
Surf Sed	DD31-000	7/12/2005	0.00	0.50	Nickel	18.000	NA	20400.0	17.890	mg/kg
Surf Sed	DD31-000	7/12/2005	0.00	0.50	Plutonium-239/240	2.960	NA	50.0	1.350	pCi/g

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Surf Sed	DE30-000	7/12/2005	0.00	0.50	Americium-241	0.287	NA	76.0	0.270	pCi/g
Surf Sed	DE30-000	7/12/2005	0.00	0.50	Plutonium-239/240	1.910	NA	50.0	1.350	pCi/g
Sub Sed	DE30-000	7/12/2005	0.50	2.50	Americium-241	0.305	NA	76.0	0.270	pCi/g
Sub Sed	DE30-000	7/12/2005	0.50	2.50	Plutonium-239/240	1.640	NA	50.0	1.350	pCi/g

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Surf Sed	SED512	11/10/1992	0.00	0.33	Americium-241	0.420	NA	76.0	0.270	pCi/g
Surf Sed	SED512	11/10/1992	0.00	0.33	Mercury	0.650	NA	25200.0	0.340	mg/kg
Surf Sed	SED512	11/10/1992	0.00	0.33	Nickel	18.100	NA	20400.0	17.890	mg/kg
Surf Sed	SED512	11/10/1992	0.00	0.33	Plutonium-239/240	2.100	NA	50.0	1.350	pCi/g
Surf Sed	SED512	11/10/1992	0.00	0.33	Toluene	340.000	5.000	31300000.0	NA	ug/kg
Surf Sed	SED512	11/10/1992	0.00	0.33	Zinc	150.000	NA	307000.0	104.400	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Surf Sed	DF30-000	7/12/2005	0.00	0.50	Aluminum	22000.000	NA	228000.0	15713.070	mg/kg
Surf Sed	DF30-000	7/12/2005	0.00	0.50	Barium	220.000	NA	25200.0	188.170	mg/kg
Surf Sed	DF30-000	7/12/2005	0.00	0.50	Iron	22000.000	NA	307000.0	21379.010	mg/kg
Surf Sed	DF30-000	7/12/2005	0.00	0.50	Nickel	19.000	NA	20400.0	17.890	mg/kg
Surf Sed	DF30-000	7/12/2005	0.00	0.50	Zinc	140.000	NA	307000.0	104.400	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Surf Sed	DF29-000	7/12/2005	0.00	0.50	Aluminum	22000.000	NA	228000.0	15713.070	mg/kg
Surf Sed	DF29-000	7/12/2005	0.00	0.50	Chromium	25.000	NA	268.0	23.230	mg/kg
Surf Sed	DF29-000	7/12/2005	0.00	0.50	Nickel	21.000	NA	20400.0	17.890	mg/kg
Surf Sed	DF29-000	7/12/2005	0.00	0.50	Plutonium-239/240	1.660	NA	50.0	1.350	pCi/g
Surf Sed	DF29-000	7/12/2005	0.00	0.50	Vanadium	50.000	NA	7150.0	46.830	mg/kg

Media	Location	Date	Start_depth_ft	End_depth_ft	Analyte	Result	Rl_or_mdl	Wrw_al	Background	Unit
Surf Sed	SED513	11/10/1992	0.00	0.42	Americium-241	0.340	NA	76.0	0.270	pCi/g
Surf Sed	SED513	11/10/1992	0.00	0.42	Arsenic	9.800	NA	22.2	7.240	mg/kg
Surf Sed	SED513	11/10/1992	0.00	0.42	Barium	226.000	NA	25400.0	188.170	mg/kg
Surf Sed	SED513	11/10/1992	0.00	0.42	Copper	35.900	NA	40500.0	27.270	mg/kg
Surf Sed	SED513	11/10/1992	0.00	0.42	Mercury	0.680	NA	25200.0	0.340	mg/kg
Surf Sed	SED513	11/10/1992	0.00	0.42	Plutonium-239/240	2.400	NA	50.0	1.350	pCi/g
Surf Sed	SED513	11/10/1992	0.00	0.42	Toluene	370.000	5.000	31300000.0	NA	ug/kg
Surf Sed	SED513	11/10/1992	0.00	0.42	Zinc	201.000	NA	307000.0	104.400	mg/kg

KEY

- Sampling location
- Pond
- IHSS
- Stream

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50 0 50 100 150 200 Feet

Scale 1:1,200

State Plane Coordinate Projection
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